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CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BROWN UNIVERSITY

1893-94



PROVIDENCE R. I. :

PRESS OF P. S. REMINGTON & CO., 153 DORRANCE STREET.

JANUARY 1, 1894.

CALENDAR 1893-94

1893	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
July	1	8
	2	3	4	5	6	7	15
	9	10	11	12	13	14	22
	16	17	18	19	20	21	28
	23	24	25	26	27	28	29
	30	31
Aug.	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31
Sept.	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
Oct.	1	2	3	4	5	6	7
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	15	16	17	18	19	20	21
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	26	27	28	29	30
Dec.	1	2
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	31
1894	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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1894	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
July	1	2	3	4	5	6	7
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College Calendar for 1893-94

1893.

- September 6.* *Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall (first Wednesday in September).
- September 18, 19.* *Monday, Tuesday.* Examination of Delinquents in College Studies.
- September 18, 19.* *Monday, Tuesday.* Examinations for Admission to College, and to Advanced Standing.
- September 20.* *Wednesday.* **Academic Year Begins.**
- November 30.* *Thursday.* Thanksgiving Day. No College Exercises on Thursday, Friday, or Saturday of Thanksgiving week.
- December 14-20.* *Thursday to Wednesday.* Term Examinations of College Classes.

Christmas Holidays, from Wednesday evening, December 20, 1893, to Tuesday evening, January 2, 1894.

1894.

- January 3.* *Wednesday.* **Second Term Begins.**
- January 25.* *Thursday.* Day of Prayer for Colleges.
- February 22.* *Thursday.* Washington's Birthday. No College Exercises.
- March 17-23.* *Saturday to Friday.* Term Examinations of College Classes.

Spring Recess, from Friday evening, March 23, to Monday evening, April 2.

<i>April 3.</i>	<i>Tuesday.</i> Third Term Begins.
<i>May 30.</i>	<i>Wednesday.</i> Memorial Day. No College Exercises.
<i>June 8-14.</i>	<i>Friday to Thursday.</i> Term Examinations of College Classes.
<i>June 14.</i>	<i>Thursday.</i> <i>Hicks Prize Debate.</i>
<i>June 15.</i>	<i>Friday.</i> Class Day.
<i>June 17.</i>	<i>Sunday.</i> Baccalaureate Sermon.
<i>June 18.</i>	<i>Monday.</i> Sophomore Prize Declamation.
<i>June 19.</i>	<i>Tuesday.</i> Annual Meeting of the Phi Beta Kappa Society, at 9.30 A. M.
<i>June 19.</i>	<i>Tuesday.</i> Annual Alumni Meeting, in Manning Hall, at 4 P. M.
<i>June 20.</i>	<i>Wednesday.</i> One Hundred and Twenty-sixth Annual Commencement (third Wednesday in June).
<i>June 21.</i>	<i>Thursday.</i> Meeting of the Corporation, in the Old Chapel, University Hall.
<i>June 21, 22, 23.</i>	<i>Thursday, Friday, Saturday.</i> Examinations for Admission to College.

Summer Vacation

<i>September 5.</i>	<i>Wednesday.</i> Annual Meeting of the Corporation, in the Old Chapel, University Hall (first Wednesday in September).
<i>September 17, 18.</i>	<i>Monday, Tuesday.</i> Examination of Delinquents in College Studies.
<i>September 17, 18.</i>	<i>Monday, Tuesday.</i> Examinations for Admission to College, and to Advanced Standing.
<i>September 19.</i>	<i>Wednesday.</i> Academic Year Begins.

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RISE AND CONSTITUTION OF THE UNIVERSITY

BROWN UNIVERSITY owes its origin to the happy convergence of two separate lines of influence. So early as 1762 a "resolution to erect a college and institute a seminary for the education of youth somewhere in North America" had been formed by the Philadelphia Baptist Association, under whose auspices the Hopewell Academy, in New Jersey, had already been established. As Rhode Island had been settled on the principle of perfect toleration in religious belief, it was decided to apply to its legislature for a charter.

Ever after the residence here, from 1729 to 1731, of the distinguished Dean Berkeley, subsequently Bishop of Cloyne, Newport had been the centre of a pronounced intellectual interest, while the memory of Berkeley's scheme to found a college in America, with the actual erection of colleges in several of the other colonies, made it impossible that the suggestion of a college for Rhode Island should be strange or unwelcome to thoughtful people in that colony. The charter was granted, and reads as follows :

At the General Assembly of the Governor and Company of the English Colony of Rhode Island and Providence-Plantations in New England in America, begun and held at East Greenwich within & for said Colony by adjournment upon the last Monday of Feb^y one Thousand Seven Hundred and Sixty-four, and in the fourth Year of the Reign of His Most Sacred Majesty George the Third, by the Grace of God, King of Great Britain, and so forth

WHEREAS Institutions for liberal Education are highly beneficial to Society, by forming the rising Generation to Virtue Knowledge & useful Literature & thus preserving in the Community a Succession of Men duly qualify'd for discharging the Offices of Life with usefulness & reputation they have therefore justly merited & received the attention & Encouragement of every wise and well regulated State, and whereas a Public School or Seminary erected for that purpose within this Colony, to which the Youth may freely resort for Education in the Vernacular & Learned Languages & in the liberal Arts & Sciences, would be for the general Advantage & Honor of the Government, and whereas

M ^r Gideon Hoxsey	M ^r Ezekiel Gardner	Daniel Jenckes Esq ^r Nicholas Tillinghast Esq ^r
M ^r Thomas Eyres	M ^r John Waterman	Nicholas Gardiner Esq ^r
M ^r Thomas Potter Jun ^r	M ^r James Barker Jun ^r	Cole. Josias Lyndon
M ^r Peleg Barker	M ^r John Holmes	Cole Elisba Reynolds
M ^r Edw ^d Thurston	Solomon Drown Esq ^r	
M ^r W ^m Redwood	M ^r Saml Windfor	Peleg Thurston Esq ^{re} Simon Pease Esq ^{re}
Joseph Clarke Esq ^r	M ^r Joseph Sheldon	
M ^r John G. Wanton	Charles Rhodes Esq ^{re}	John Tillinghast Esq ^{re} George Haszard Esq ^{re}
M ^r Tho ^s Robinson	M ^r Nicholas Brown	Cole Job Bennet
	Cole M ^r Barzilla Richmond	Nicholas Easton Esq ^{re}
	M ^r John Brown	Arthur Fenner Esq ^{re}

with many other Persons appear as undertakers in the valuable design, & thereupon a Petition has been prefer'd to this Assembly praying that full Liberty and Power may be granted unto such of them with others as are hereafter mentioned to found endow, order & govern a College or University within this Colony & that for the more effectual execution of this design they may be incorporated into one Body Politic to be known in the Law with the powers priviledges & franchises necessary for the purpose aforesaid—

Now, therefore know ye that being willing to encourage and patronise such an honorable and useful Institution, we the said Governor & Company in General Assembly convened do for ourselves and our

Succesors in and by virtue of the Power and Authority within the Jurisdiction of this Colony to us by the Royal Charter granted & committed enact grant constitute ordain & declare & it is hereby enacted granted constituted ordained and declared that the

Rev. ^d James Manning	Joshua Babcock Esq. ^{re}	Hon'ble Stephen Hopkins Esq. ^{re}
Rev. ^d Rufsel Mason	M ^r John G. Wanton	Hon'ble Joseph Wanton Jun ^r Esq. ^{re}
Col. ^o Elisha Reynolds	Rev. ^d Edward Upham	Hon'ble John Gardner
Col. ^o Josias Lyndon	Rev. ^d Jeremiah Condy	Hon'ble Samuel Ward Esq. ^{re}
Col. ^o Job Bennet	Rev. ^d Marmaduke Brown	Hon'ble William Ellery Esq. ^{re}
M ^r Ephraim Bowen	Rev. ^d Gardner Thurston	" John Tillinghast Esq. ^{re}
Joshua Clarke Esq. ^{re}	Rev. ^d Ezra Stiles	" Simon Pease Esq. ^{re}
Cap. ^t Jon. ^a Slade	Rev. ^d John Greaves	" James Honyman Esq. ^{re}
John Taylor Esq. ^{re}	Rev. ^d John Maxson	" Nicholas Easton Esq. ^{re}
M ^r Robert Strettell Jones	Rev. ^d Sam ^l Winfor	" Nicholas Tillinghast Esq. ^{re}
Azariah Dunham Esq. ^{re}	Rev. ^d John Gano	" Darius Sefsions Esq. ^{re}
M ^r Edward Thurston J ^r	Rev. ^d Morgan Edwards	" Joseph Harris Esq. ^{re}
M ^r Thomas Eyres	Rev. ^d Isaac Eaton	" Francis Willet Esq. ^{re}
M ^r Thomas Haszard	Rev. ^d Sam ^l Stillman	William Logan Esq. ^{re}
M ^r Peleg Barker	Rev. ^d Sam ^l Jones	" Daniel Jencks Esq. ^{re}
		George Hazard Esq. ^{re}
		M^r Nicholas Brown Esq. ^{re}
		" Jeremiah Niles Esq. ^{re}

or such or so many of them as shall within twelve Months from the date hereof, accept of this trust and qualify themselves as herein after directed, and their Succesors shall be for ever hereafter one Body Corporate & Politic in Fact and Name to be known in Law by the Name of Trustees, and Fellows of the College or University in the English Colony of Rhode Island and Providence Plantations in New England in America the Trustees and Fellows at any Time hereafter giving such more particular Name to the College in Honor of the greatest & most distinguished Benefactor or otherwise as they shall think proper which Name so given shall in all Acts, Instruments and Doings of said Body Politic be superadded to their corporate Name aforesaid, and become a part of their legal Appellation, by which it shall be for ever known and distinguished, and that by the same Name, they and their Succesors chosen by themselves as hereafter prescribed shall and may have perpetual Succesion, and shall & may be Persons able and capable in the Law to Sue, & to be Sued to Plead and

to be impleaded to Answer, and to be Answered unto, to defend and to be defended in all and singular Suits Causes Matters Actions and Doings of what kind soever & also to have take possesse purchase acquire or otherwise receive & hold Lands Tenements Hereditaments, Goods Chattles or other Estates of all which they may and shall stand and be seized notwithstanding any Misnomer of the College or the Corporation hereof and by what ever Name or however imperfectly the same shall be described in Gift, Bequests and Assignments provided the true intent of the Assigner or Benefactor be evident. Also the same to grant demise alien lease use manage and improve according to the Tenor of the Donations, and to the Purposes Trusts & Uses to which they shall be seized there of and full Liberty Power & Authority is hereby granted unto the said Trustees & Fellows and their Successors to found a College or University within this Colony for promoting the Liberal Arts and Universal Literature, and with the Monies Estates & Revenues of which they shall from time to time become legally Seized as aforesaid to Endow the same and erect the necessary Buildings & Edifices thereof on such Place within this Colony as they shall think Convenient: And Generally to regulate Order & Govern the same Appoint Officers & make Laws as herein after prescribed & hold use & enjoy all the Liberties Privileges exemptions, Dignities & Immunities enjoy'd by any College or University whatever, And furthermore that the s^d Trustees & fellows & their Successors shall & may forever hereafter have a public Seal to use for all Causes matters & affairs whatever of them and their Successors and the same Seal to alter Break & make anew from time to time at their Will and Pleasure which Seal shall always be deposited with the President or Senior fellow and furthermore by the Authority aforesaid it is hereby enacted Ordained & declared that it is now and at all Times hereafter shall continue to be the unalterable Constitution of this College or University that the Corporation thereof shall consist of two Branches Viz: that of the Trustees & that of the fellowship with distinct separte & respective powers, and that the Number of the Trustees shall and may be thirty ~~five~~ six of which twenty two shall forever be Elected of the Denomination called Baptists or Antipedobaptis Five shall for ever be elected of the Denomination called Friends or Quakers, four shall for ever be elected of the Denomination called Congregationalists, & ~~four~~ Five shall

for ever be elected of the Denomination called Episcopalians & that the Succession in this Branch shall be for ever chosen & filled up from the respective Denominations in this proportion and according to these Numbers which are hereby fixt & shall remain to perpetuity imutably the same and that the said

Rev. ^d Isaac Eaton	“ Francis Willet Esq ^{re}	Hon’ble Stephen Hopkins Esq ^{re}
Rev. ^d Sam Stillman	“ Daniel Jencks Esq ^{re}	Hon’ble Joseph Wanton Jun Esq ^{re}
Rev. ^d Rufsel Mafon	George Haszard Esq ^{re}	Hon’ble John Gardner Esq^{re}
Col ^o Elisha Reynolds	Nicholas Brown Esq ^{re}	Hon’ble Samuel Ward Esq ^{re}
Col ^o Josias Lyndon	“ Jeremiah Niles Esq ^{re}	Hon’ble William Ellery Esq ^{re}
Col ^o Job Bennet	“ Mr John G Wanton Esq ^{re}	“ John Tillinghast Esq ^{re}
Mr Ephraim Bowen	“ Mr Joshua Clark Esq ^{re}	“ Simon Pease Esq ^{re}
John Taylor Esq ^{re}	“ Rev. ^d Gardner Thurston	“ James Honyman Esq ^{re}
Cap ^t Jon ⁿ Slade	“ Rev. ^d John Greaves	“ Nicholas Easton Esq ^{re}
Mr Robert Strettell Jones	“ Rev. ^d John Maxfon	“ Nicholas Tillinghast Esq ^{re}
Azariah Dunham Esq ^{re}	“ Rev. ^d John Gano	“ Darius Sefsions Esq ^{re}
Mr Edward Thurston Jun ^r	“ Rev. ^d Sam ^l Winfor	“ Joseph Harris Esq ^{re}
Mr Peleg Barker		

or such or so many of them as shall qualify themselves as aforesaid shall be and they are hereby declared and established the first and present Trustees.— And that the Number of the Fellows inclusive of the President who shall always be a Fellow, shall and may be Twelve of which eight shall be for ever elected of the Denomination called Baptists or Antipadobaptists, and the rest indifferently of any or all Denominations and that the

Joshua Babcock Esq.	Rev. ^d Ezra Stiles	Rev. Edward Upham
Mr Thomas Eyres	Rev. ^d Sam ^l Jones	Rev. Jeremiah Condry
Mr Thomas Hafzard	Rev. ^d James Manning	Rev. Marmaduke Brown
	Hon’ble W ^m Logan Esq ^{re}	Rev. Morgan Edwards

or such or so many of them as shall qualify themselves as aforesaid. shall be, and they are hereby declared the first and present Fellows and Fellowship to whom the President when hereafter elected who shall forever be of the Denomination called Baptist or Antepedo Baptist shall be Joined to compleat the Number. And furthermore it is declared and ordained that the Succession in both Branches shall at all times hereafter be filled up and supplied according to these Numbers and this established and invariable Proportion from the respective Denominations by the seperate Election of both Branches

of this Corporation which shall at all Times fitt and Act by separte and distinct Powers, and in general in order to the validity and consummation of all Acts there shall be in the Exercise of their respective separte and distinct Powers, the Joint concurrence of the Trustees and the Fellows by their respective Majorities except in adjudging and conferring the Academical Degrees which shall for ever belong exclusively to the Fellowship as a Learned Faculty And further it is constituted that the Instruction and immediate Government of the College shall for ever be and Rest in the President and Fellows or Fellowship—And furthermore it is ordained that there shall be a General Meeting of the Corporation on the first Wednesday of September Annually within the College Edifice, and untill the same be Built at such Place as they shall appoint to consult Advise and transact the Affairs of the College or University at which or at any other time the Public Commencement may be held and Celebrated and that on any special Emergencies the President with any two of the Fellows or any Three of the Fellows exclusive of the President may convoke and they are hereby empowered to convoke an Assembly of the Corporation on twenty Days Notice and that in all Meetings the Major Vote of those Present of the two Branches respectively shall be deemed their respective Majorities aforesaid, provided that not less than twelve of the Trustees & five of the Fellows be a Quorum of their Respective Branches—That the President or in his Absence the Senior Fellow present shall always be Moderator of the Fellows, that the Corporation at their Annual Meetings once in three Years or oftner in Case of Death or Removal shall and may chose a Chancellor of the University and Treasurer from among the Trustees, and a Secretary from among the Fellows, that the Nomination of the Chancellor shall be in the Trustees whose Office shall be only to Preside as a Moderator of the Trustees and that in his Absence the Trustees shall choose a Moderator for the time being by the Name of Vice Chancellor and at any of their Meetings duly formed as aforesaid shall and may be elected a Trustee or Fellow, or Trustees or Fellows in the Room of those Nominated in this Charter who may refuse to accept or in the Room of those who may Die, Resign or be Removed— And furthermore it is enacted ordained and declared that this Corporation at any of their Meetings regularly convened as aforesaid shall and may Elect and appoint the President and Professors of Languages and the

several Parts of Literature, and upon the demise of him or them or either of them their Resignation or Removal from his or their Office for Misdemeanor Incapacity or Unfaithfulness, for which he or they are hereby declared removeable by this Corporation others to Elect and Appoint in their Room and Stead, & at such meeting upon the Nomination of the Fellows to Elect and Appoint Tutors Stewards Butlers and all such other Officers usually appointed in Colleges or Universities as they shall find necessary and think fitt to appoint for the promoting Liberal Education and the well ordering the Affairs of this College and them or any of them at their discretion to remove and substitute others in their Places, and in case any President Trustee or Fellow shall see Cause to change his Religious Denomination the Corporation is hereby empowered to declare his or their Place or Places Vacant, and may proceed to fill up it or them accordingly as before directed otherwise each Trustee and Fellow not an officer of Instruction shall continue in his Office, during Life or untill Resignation and further in Case either of the Religious denominations shou'd decline taking a Part in this Catholic Comprehensive and liberal Institution the Trustees and Fellows shall and may compleat their Number by electing from their Respective Denominations always preserving their Respective Proportions, herein before prescribed and determined, and all Elections shall be by Ballot, or written Suffrage, and that a Quorum of four Trustees & three Fellows may transact any Business excepting placing the College Edifice, Election of Trustees, President, Fellows and Professors that is to say so that their Acts shall be of Force and Validity untill the next Annual Meeting and no longer——

AND it is further Enacted and Ordained by the Authority aforesaid that each Trustee and Fellow as well those Nominated in this Charter or all that shall hereafter be duly Elected shall previous to their acting in a corporate Capacity take the Engagement of Allegiance prescribed by the Law of this Colony to His Majesty King George the third, His Heirs and Rightful Successors to the Crown of Great Britain which Engagement shall be Administered to the present Trustees and Fellows by the Governor or Deputy Governor of this Colony and to them from time to time hereafter Elected by their Respective Moderators who are hereby empowered to Administer the same——

AND still the more clearly to define and Ascertain the Respective Powers of the two Branches on making and enacting Laws, it is further Ordained and Declared that the Fellowship shall have Power and are hereby impowered from time to time and all times hereafter to make Enact and Publish all such Laws Statutes Regulations and Ordinances with Penalties as to them shall seem meet for the successful Instruction and Government of said College or University not contrary to the Spirit Extent, true Meaning and Intention of the Acts of the British Parliament or the Laws of this Colony, and the same Laws, Statutes and Ordinances to Repeal, which Laws and the Repeals thereof, shall be laid before the Trustees, and with their Approbation shall be of Force and Validity but not otherwise, and further the Trustees and Fellows at their Meetings aforesaid shall ascertain the Salaries of the Respective Officers and Order the Monies assestsd on the Students, for Tuition Fines and Incidental Expences to be Collected by the Steward or such other Officer as they shall appoint to Collect the same, and the same with their Revenues and other College Estates in the Hands of the Treafurer to appropriate, in discharging Salaries and other College Debts and the College Accounts shall be Annually Audited and Adjusted in the Meeting of the Corporation and furthermore it is hereby enacted and declared that into this Liberal & Catholic Institution shall never be admitted any Religious Tests but on the Contrary all the Members hereof shall for ever enjoy full free Absolute and uninterrupted Liberty of Conscience and that the Places of Professors, Tutors and all other Officers the President alone excepted shall be free and open for all Denominations of Protestants and that Youths of all Religious Denominations shall and may be freely admitted to the Equal Advantages Emoluments & Honors of the College or University and shall receive a like fair generous & equal Treatment, during their Residence therein, they conducting themselves peaceably and conforming to the Laws and Statutes thereof: And that the Public teaching shall in general Respect the Sciences and that the Sectarian differences of opinions, shall not make any Part of the Public and Classical Instruction, altho' all Religious Controversies may be studied freely examined and explained by the President Professors and Tutors in a personal seperate and distinct manner, to the Youth of any or each Denomination and above all a constant Regard be paid to and effectual Care taken of the Morals

of the College and furthermore for the honour & encouragement of Literature we constitute and declare the Fellowship aforesaid a learned faculty and do hereby give grant unto and invest them & their Successors with full Power & Authority, and they are hereby Authorized & empowered by their President & in his Absence by the Senior Fellow or one of the Fellows appointed by themselves at the Anniversary Commencements or at any other times and at all Times hereafter to Admit to & Conferr any & all the Learned Degrees which can or ought to be given and conferred in any of the Colleges & Universities in America ~~Europe & particularly in the University in Cambridge & Edinbrough in Great Britain~~) or any such other Degrees of Literary Honor as they shall devise upon any and all such Candidates and Persons as the President and Fellows or Fellowship shall Judge worthy of the Academical Honors, which Power of conferring Degrees is hereby restricted to the Learned Faculty, who shall or may Issue Diplomas or Certificates of such Degrees or conferr Degrees by Diplomas and Authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Professors as Witnesses and deliver them to the Graduates as Honorable and Perpetual Testimonies, and furthermore for the greater Encouragement of this Seminary of Learning and that the same may be amply endow'd and enfranchised with the same priviledges Dignities and Immunities, enjoy'd by the American Colleges and European Universities, we do grant enact Ordain and Declare and it is hereby granted Enacted Ordained and Declared that the College Estate, the Estates Persons and Families of the President and Professors for the Time being lying and being within the Colony with the Persons of the Tutors ~~Graduates~~ and Students during their Residence at the College shall be freed and exempted from all Taxes, serving on Juries and Menial Services, and that the Persons aforesaid shall be exempted from bearing Arms Impresses and Military Services except in Case of an Invasion And furthermore for establishing the perpetuity of this Corporation and in case that at any time hereafter through oversight or otherwise through misapprehensions and mistaken Constructions of the Powers Liberties and Franchises herein contained any Laws should be enacted or any matters done and transacted by this Corporation contrary to the tenor of this Charter it is hereby enacted ordained and declared that all such Laws Acts and Doings shall be in themselves null and

void : yet nevertheless the same shall not in any Courts of Law or by the Gen^l Asseembly be deemed taken interpreted or adjudged into an avoidance, defeazance or forfeiture of this Charter but that the same shall be and remain unhurt inviolate and entire unto the said Corporation in perpetual Succesfion, which Corporation may at all times and forever hereafter proceed & continue to Act ; and all their Acts conformable to the Powers, tenor, true intent and Meaning of the Charter shall be and remain in full force and validity, the nullity and avoidance of any such illegal Acts to the Contrary in any wise notwithstanding—and lastly, We the Governor and Company aforesaid do for ourselves and our Succesfors, forever hereby enact, Grant & confirm unto the said Trustees and Fellows and to their Succesfors that this Charter of Incorporation and every part thereof shall be good and available in all things in the Law according to our true Intent and meaning, and shall be construed, reputed & adjudged in all cafes most favorably on the behalf and for the best benefit and behoof of the said Trustees and Fellows and their Succesfors so as most effectually to answer the valuable Ends of this usefull Infitution—

In full Testimony of which Grant and of all the Articles and matters therein contained, the said Governor & Company do hereby order that this Act shall be Signed by the Governor and Secretary and Sealed with the publick Seal of this Colony and Registerd in the Colonys Records and that the Same or an exemplification thereof shall be a sufficient Warrant to the said Corporation to hold, use and exercise all the Powers, Franchises and Immunities herein contained—

March 2^d 1764

To the House of Mag^{sts}

Gen^l Resolvd that the aforewritten Pass as an Act of this Asseembly

Noted & passd Nemine Contradicente

& ord^d Josias Lyndon Clerk

In the Upper House

Read on the Third and concurred Nemine Contradicente

By Ord. Henry Ward Secr'y

NOTE.—The above is in all respects an exact reproduction of the original Copy of the Charter in the office of the Secretary of the State of Rhode Island, in Providence.

On September 4, 1782, the Corporation omitted from the engagement to be taken by new members the acknowledgment of allegiance to the British Crown, at the same time ordering broken the old seal of the College, which contained the busts of the king and queen of Great Britain. The present seal, of which this volume bears the imprint, was adopted on September 3, 1834.

In the spring of 1764, Rev. James Manning, a recent graduate of the College of New Jersey, opened a Latin School at Warren, Rhode Island, as a step preparatory to the work of college instruction. In September 1765, he was formally appointed by the Corporation, "President of the College and Professor of Languages and other branches of learning, with full power to act in these capacities at Warren or elsewhere." The first Commencement was held at Warren, in September, 1769. In the spring of 1770 the College was moved to Providence. The corner-stone of the first building, still standing as the venerable University Hall, was laid on the fourteenth of May in that year. During the Revolutionary War college studies were suspended, and the building was used by the American and French forces for barracks and a hospital. At its meeting on Thursday, September 6, 1804, in view of distinguished beneficence to the College on the part of Mr. Nicholas Brown, the Corporation, under the power conveyed by the charter to change the title, voted, "That the College be known in all future time by the name of BROWN UNIVERSITY, in Providence, in the State of Rhode Island and Providence Plantations."

In 1863, the General Assembly of the State of Rhode Island passed an Act, subject to the consent of the Corporation, which was at once cordially given, limiting the exemption from taxation of the estates, persons and families of the President and Professors, to the "amount of ten thousand dollars for each of such officers, his estates, person and family included."

CONDITIONS OF ADMISSION TO THE UNIVERSITY

ADMISSION TO SELECT COURSES

The instruction furnished by the University is open to all young men of good character who are able and willing to profit by it. While every student who can conveniently do so is for his own good urged to matriculate for some one of the various degrees, this is by no means necessary; and such as do not do it are no less welcome to the advantages of the University than are candidates for degrees. It is the policy of the University to encourage all faithful students who enter for short periods. For such, special pains is taken to arrange profitable courses of study covering single terms, two terms, a year, or two years, according to circumstances. Each course of this kind must have the approval of the Faculty, and, except in special cases, will require attendance in the class-room for at least sixteen hours a week. The candidate must be familiar with the subjects preliminary to the studies which he proposes to pursue. He must sustain creditable examinations in all his college studies at the close of each term. Idle and worthless students will not be permitted to abuse the above facilities for special study as a means of preserving a merely nominal connection with the University. Upon later pages of this Catalogue are exhibited a few groups of courses specially appropriate for students who intend to enter professional schools. While primarily meant to guide candidates for degrees, these minor curricula, faithfully pursued, afford admirable preparation for professional study to such as find it for any reason impossible to earn collegiate degrees. On leaving the University, special students who desire them receive formal certificates of their attainments.

ADMISSION TO COURSES LEADING TO DEGREES

The regular examinations for admission to the FRESHMAN CLASS take place on Thursday, Friday and Saturday of Commencement week, June 21, 22, and 23, 1894, beginning at 9 o'clock A. M. on Thursday. *Candidates must be in attendance during the three days.*

These examinations occur in Rhode Island Hall, *where all the candidates are to assemble on Thursday at 8.45 A. M., to be registered.*

The order of the examinations will be :

THURSDAY, JUNE 21.

Greek, South Room, from 9 A. M. to 12.30 P. M.

Latin, North Room, from 2.30 to 6 P. M.

History for B. P. candidates, North Room, from 9 A. M. to 12.30 P. M.

FRIDAY, JUNE 22.

Mathematics, South Room, from 8.15 A. M. to 12.30 P. M.

French, South Room, from 3 to 5 P. M.

German, North Room, from 3 to 5 P. M.

SATURDAY, JUNE 23.

English, South Room, from 9 to 11 A. M.

There will be, as follows, a second examination in each of the above branches, on Monday and Tuesday, September 17 and 18, 1894. *Applicants must be in attendance on both days.*

MONDAY, SEPTEMBER 17.

German, South Room, R. I. Hall, from 9 to 11 A. M.

French, North Room, R. I. Hall, from 9 to 11 A. M.

English, South Room, R. I. Hall, from 11.30 A. M. to 1 P. M.

Mathematics, North Room, R. I. Hall, from 2 to 6 P. M.

TUESDAY, SEPTEMBER 18.

Latin, North Room, R. I. Hall, from 8 to 10.30 A. M.

Greek, South Room, R. I. Hall, from 11 A. M. to 1.30 P. M.

For admission to **ADVANCED STANDING**, unless coming from other Colleges, and those of high standing, candidates are examined in the studies already pursued by the respective classes which they propose to enter. These examinations for 1894 will be held on Monday and Tuesday, September 17 and 18. Students must report at the Registrar's Office at 9 A. M. on Monday, September 17.

No student can be admitted as a candidate for matriculation unless he brings suitable testimonials of a good moral character. If from another College, he must also present a certificate of his standing in the College which he has left, and of regular dismissal from it.

If desired, examinations will be appointed in cities remote from Providence. Correspondence on this subject should be addressed to the Registrar of the University.

Pupils from schools of known excellence are admitted to the Freshman Class without examination, on the certificates [not diplomas] of the Principals of these schools. Upon application by the Principal of any school from which pupils are received in this manner, the University furnishes blank forms for these certificates.

Qualified members of the Freshman Class are matriculated at the beginning of the second term.* Till matriculation, all candidates for degrees, however admitted, are regarded as on probation.

For the Courses for the Degree of Bachelor of Arts

Candidates for admission to the Freshman Class are examined in the following subjects; but real equivalents will be received for any of the Latin or Greek works mentioned:

I. Greek. 1, Authors: Xenophon's *Anabasis* entire; or four books of the *Anabasis* and three of Homer, regard being held not only to language but to subject matter as well. 2, Grammar: A familiar knowledge of inflection, word-formation and ordinary syntax. 3, Composition: The first twenty-five exercises of Jones's *Composition*, or Allinson's *Composition* as far as Part III. 4, History: The general history of Greece to the death of Alexander.

Candidates are expected to be able to translate at sight simple Attic prose, unusual words being defined, and to write in Greek simple connected narrative based upon the *Anabasis*.

II. Latin. 1, Caesar, *Gallic War*, books i-iv, or books i-iii and Sallust's *Catiline*, with questions on the subject-matter and on grammar. 2, Ovid, twenty-five hundred lines. 3, Cicero, the *Orations*

against Catiline, and the oration for Archias, with questions, as on Caesar. 4, Vergil, Aeneid, books i-vi, or Aeneid, books i-v and the Eclogues, with questions on the subject-matter and on prosody. 5, Translation, at sight, of ordinary passages from Caesar, Cicero's Oration, Vergil's Aeneid, and Ovid's Metamorphoses, with questions on grammar, prosody, history and antiquities, suggested by the passages assigned. 6, Translation into Latin of simple English sentences. 7, Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 8, Outlines of Roman Geography, and of Roman History to the end of the reign of Marcus Aurelius. It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both oral and written, passages prepared by the teachers on the basis of the prose authors read.

In pronouncing Latin, it is recommended that *ā* be pronounced as in *father*, *ă* as the *a* in *Cubă*; *ē* as in *prey*, *ě* as in *men*; *ī* as in *machine*; *ĩ* as in *cigar*; *ō* as in *old*, *õ* as in *obey*; *ū* as in *rule*, *ũ* as in *full*; *j* as *y* in *yard*; *c* always as *k* in *king*; *g* always as *g* in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

III. Mathematics. 1, Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2, Plane Geometry.

IV. English Composition. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation and spelling.

In 1894 the subject will be taken from one of the following works:

Shakspeare's Julius Caesar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens's David Copperfield.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction, and tests of accuracy in pronunciation will be made.

In 1895 the list will be Shakspeare's Merchant of Venice and Twelfth Night, Milton's L' Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, the Sir Roger de Coverley Papers in the Spectator, Macaulay's Essay on Milton and on Addison, Webster's First Bunker Hill Oration, Irving's Sketch Book, and Scott's Abbot.

In 1896, Shakspeare's Merchant of Venice and Midsummer Night's Dream, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, Macaulay's Essay on Milton, Webster's First Bunker Hill Oration, De Foe's History of the Plague in London, Irving's Tales of a Traveller, Scott's Woodstock, George Eliot's Silas Marner.

In 1897, Shakspeare's Merchant of Venice and As You Like It, Scott's Marmion, Longfellow's Evangeline, Burke's Speech on Conciliation with America, Macaulay's Life of Samuel Johnson, De Foe's History of the Plague in London, Irving's Tales of a Traveller, Hawthorne's Twice Told Tales, George Eliot's Silas Marner.

V. French. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs, and of the more usual irregular verbs, such as *dire, faire*, and the classes represented by *ouvrir, sentir, venir, paraître, conduire*, and *craindre*.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work necessarily depends. Mastery of Professor Whitney's Brief French Grammar will be regarded as sufficient.

2 Ability to translate simple prose at sight.

It is believed that the required facility can be gained by reading concurrently with the work of the grammar from two hundred to four hundred duodecimo pages out of at least three dissimilar works, but care should be taken not to read works assigned in the college courses.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the French texts used in the class-room.

In place of the above requirements in French, the following may be offered:

German. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends. Mastery of Professor Whitney's Brief German Grammar will be regarded as sufficient.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

It is believed that the required facility can be gained by reading concurrently with the work in the grammar, two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems, but care should be taken not to read the works assigned in the college courses.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the German texts used in the class-room.

Students who present German for entrance must take French during their Sophomore year.

Preliminary Examinations

In the Preparatory studies named below, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. These examinations will occur, for 1894, on Thursday, June 21, *and then only*. They will be held in the *South Room of Rhode Island Hall*, and in the following order:

Greek, from 9 A. M. to 12:30 P. M.

Latin, from 2:30 to 5:30 P. M.

The subjects will be: **I, In Greek:** 1 Greek Grammar. 2 Three books of Xenophon's Anabasis. **II, In Latin:** 1 Latin Grammar. 2 Caesar, or Caesar and Sallust, as on page 34. 3 Translation into Latin of simple sentences. 4 Ovid, or Cicero, or Vergil, as on pages 34, 35.

For the Courses for the Degree of Bachelor of Philosophy

Courses of instruction for this degree, as for that of Bachelor of Arts, embrace four years. Here certain studies are elective from the beginning, two main courses being offered to candidates, one including classical studies, the other omitting these and presenting a larger number of mathematical and scientific studies. Both courses are susceptible of ample variation through election.

Candidates for admission to a course including *Greek* are examined in all the Greek subjects specified on page 34. They are also examined in all of the subjects, except the Latin, in the list below.

Candidates for admission to a course including *Latin* are examined in all the Latin subjects specified on pages 34 and 35. They are also examined in all the subjects, except the Latin, in the list below.

Candidates for admission to a course *omitting* classical studies are examined in the following subjects :

I, Latin. *Five* books of Caesar, or its equivalent in Cicero or in Vergil.

II, Mathematics. 1 Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry.

III, English. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation, and spelling.

In 1894, the subject will be taken from one of the following works :

Shakspeare's Julius Caesar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's Second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens's David Copperfield.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction, and tests of accuracy in pronunciation will be made.

For the subjects for 1895, 1896, and 1897, see pages 35 and 36.

IV, French. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs, and of the more usual irregular verbs, such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire*, and *craindre*.

2 Ability to translate simple prose at sight.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

The following course will be accepted instead either of the French or of the Latin required of candidates for the Degree of Bachelor of Philosophy:

German. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

All students who offer German instead of French for admission to College will be required to take French during their Sophomore year.

For further remarks on the requirements in French and German, see pages 36 and 37.

V, History. 1 The general history of Greece to the death of Alexander. 2 Roman history to the end of the reign of Marcus Aurelius.

Note: This requirement takes effect only for the class entering in 1895.

For the Courses for the Degree of Bachelor of Science

The courses of study leading to the degree of Bachelor of Science are intended for those who have carried their preparatory studies in Mathematics and Modern Languages farther than candidates for the degree of Bachelor of Arts have done, and who wish in College to make a specialty of Mathematics and the Natural Sciences. The requirements for admission to these courses are:

I, Mathematics. 1 Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry. 3 Solid and Spherical Geometry. 4 Plane Trigonometry, with the use of logarithmic and trigonometric tables.

II, English Composition. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation and spelling.

In 1894 the subject will be taken from one of the following works: Shakspeare's Julius Caesar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens's David Copperfield.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction, and tests of accuracy in pronunciation will be made.

For the subjects for 1895, 1896 and 1897, see pages 35 and 36.

III, Languages. Any two of the following three:

A, *French*. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs, and of the more usual irregular verbs, such as *dire, faire*, and the classes represented by *ouvrir, sentir, venir, paraître, conduire*, and *craindre*.

2 Ability to translate simple prose at sight.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

B, *German*. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

3 Ability to pronounce German and to recognize German words and simple phrases when uttered.

For further remarks on these French and German requirements, see pages 36 and 37.

C, *Latin*. Five books of Caesar, or the equivalent thereof in Cicero or in Vergil.

IV, *History*. 1 The general history of Greece to the death of Alexander. 2 Roman history to the end of the reign of Marcus Aurelius.

The course of study leading to the degree of Civil Engineer and the course leading to that of Mechanical Engineer are intended for those who, not having studied the Classics, have carried their studies in Mathematics and Modern Languages as far as candidates for the degree of Bachelor of Arts or Bachelor of Science have done, and who wish in College to pursue subjects relating to the applications of Mathematics in the various branches of Engineering.

I, Mathematics. 1 Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry.

II, English Composition. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation, and spelling.

In 1894 the subject will be taken from one of the following works: Shakspeare's Julius Caesar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens's David Copperfield.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction, and tests of accuracy in pronunciation will be made.

For the subjects for 1895, 1896 and 1897, see pages 35 and 36.

III, French. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs, and of the more usual irregular verbs, such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire*, and *craindre*.

2 Ability to translate simple prose at sight.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

In place of the above requirements in French, the following may be offered:

German. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified; of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

For remarks on these French and German requirements see pages 36 and 37.

NOTE.—Students, in all courses, who present German for entrance, are required to take one year of German in College.

THE COURSES OF INSTRUCTION*

The courses of instruction for undergraduates form a system of studies partly required and partly elective. The studies of the Freshman year are nearly all required, the main exception being that candidates for the degree of Bachelor of Philosophy have a choice of courses according as they do or do not wish to pursue the study of an ancient language. The required studies of the Freshman year are selected for their disciplinary value, that the student may the more profitably pursue those, whatever they may be, of the subsequent years. During the last three years large liberty in the choice of studies is allowed, particularly in the case of candidates for the degrees of Bachelor of Arts and Bachelor of Philosophy. The required studies for these degrees during these years are restricted to English, History, and Philosophy, some acquaintance with which is deemed necessary for every student who is to receive a collegiate degree. Candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer are allowed less freedom of election, in order that they may thoroughly master the branches necessary for the most perfect discipline in their respective departments.

The elective studies, which are very numerous, are so placed in the curriculum as to give all the freedom of choice which the necessary limitations of the schedule of lectures admit. In arranging this schedule a number of parallel

*Instruction for graduate students is treated by itself in a later paragraph. A special circular relating to the same may be had on application to the Registrar.

courses, each unitary and progressive and extending through the last three years, are made available. Every student is advised in selecting his studies to adopt, in the main, one of these courses.

Attention is here directed to the later pages of this Catalogue where "Courses Suggested as Desirable for Students Preparing for Professions" are set forth.

In addition to the regular courses of instruction, special honor courses are offered, which are open, under certain conditions, to students willing to do large extra work in their particular departments. These honor courses, fully described in a later paragraph, mainly consist of special reading supplemented by problems and essays. Examinations in them are held at the option of the several professors.

THE COURSES OF INSTRUCTION

ARRANGED ACCORDING TO YEARS AND TERMS

For Candidates for the Degree of Bachelor of Arts

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Greek 1, Latin 1, French 1, Mathematics 1, General Lecture, Military Drill.	Greek 2, Latin 2, French 2, Mathematics 2, Rhetoric 1, Military Drill, Gymnasium.	Greek 3, Latin 3, French 3, Mathematics 3, Physiology 1, Military Drill.

SOPHOMORE YEAR

Rhetoric 2, Elocution 1, German 1, Military Drill, Electives, nine hours.	Rhetoric 3, Elocution 2, German 2, Military Drill, Gymnasium, Electives, nine hours.	Rhetoric 1, Elocution 3, German 3, Military Drill, Electives, nine hours.
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JUNIOR YEAR

Philosophy 2, Orations, History 1, Gymnasium, Electives, nine hours.	Philosophy 3, Orations, History 2, Gymnasium, Electives, nine hours.	Philosophy 19, Orations, Electives, twelve hours.
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SENIOR YEAR

The work of the Senior year, with the exception of Gymnasium practice, consists entirely of elective studies, fifteen hours per week.

For Candidates for the Degree of Bachelor of Philosophy

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 1, French 1 or German 4, General Lecture, Military Drill.	Mathematics 2, French 2 or German 5, Rhetoric 1, Military Drill, Gymnasium.	Mathematics 3, French 3 or German 6, Physiology 1, Military Drill.

And two of the following groups :

A { Botany 1, Drawing 2,	{ Botany 2, Drawing 3,	{ Botany 3, Drawing 4,
B Drawing 1,	Drawing 5,	Drawing 6,
C { Rhetoric 2, Elocution 1,	{ Rhetoric 3, Elocution 2,	{ Rhetoric 4, Elocution 3,
D Greek 1,	Greek 2,	Greek 3,
E Latin 1.	Latin 2.	Latin 3.

SOPHOMORE YEAR

Rhetoric 2, Elocution 1, German 1, Military Drill, Electives, nine hours.	Rhetoric 3, Elocution 2, German 2, Military Drill, Electives, nine hours, Gymnasium.	Rhetoric 4, Elocution 3, German 3, Military Drill, Electives, nine hours.
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JUNIOR YEAR

Philosophy 2, Orations, History 1, Gymnasium, Electives, nine hours.	Philosophy 3, Orations, History 2, Gymnasium, Electives, nine hours.	Philosophy 19, Orations, Electives, twelve hours.
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SENIOR YEAR

The work of the Senior year, with the exception of Gymnasium practice, consists entirely of elective studies, fifteen hours per week.

For Candidates for the Degree of Bachelor of Science

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 4, 5, Mathematics 9, French 1 or German 4, General Lecture, Military Drill.	Mathematics 6, Mathematics 10, French 2 or German 5, Rhetoric 1, Military Drill, Gymnasium.	Mathematics 7, Mathematics 12, French 3 or German 6, Physiology 1, Military Drill.

And two of the following groups :

A { Botany 1, Drawing 2,	{ Botany 2, Drawing 3,	{ Botany 3, Drawing 4,
B Drawing 1,	Drawing 5,	Drawing 6,
C { Rhetoric 2, Elocution 1,	{ Rhetoric 3, Elocution 2,	{ Rhetoric 4, Elocution 3,
D Greek 1,	Greek 2,	Greek 3,
E Latin 1.	Latin 2.	Latin 3.

SOPHOMORE YEAR

Rhetoric 2, Elocution 1, German 1, Mechanics 1, Chemistry 1, Military Drill, And one of the follow- ing :	Rhetoric 3, Elocution 2, German 2, Mechanics 2, Chemistry 2, Military Drill, Gymnasium, And one of the follow- ing :	Rhetoric 4, Elocution 3, German 3, Mechanics 5, Chemistry 3, Military Drill, And one of the follow- ing :
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Mathematics 13, Surveying 1, French 4, German 4, Botany 1.	Mathematics 8, Surveying 2, French 5, German 5, Botany 2.	Mathematics 11, Surveying 3, French 6, German 6, Botany 3.
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JUNIOR YEAR

Philosophy 2, Orations, History 1, Gymnasium, And three of the fol- lowing electives :	Philosophy 3, Orations, History 2, Gymnasium, And three of the fol- lowing electives :	Philosophy 19, Orations, And three of the fol- lowing electives :
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<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 14,	Mathematics 15,	Mathematics 16,
Mechanics 2,	Mechanics 4,	Mechanics 5,
Surveying 1,	Surveying 2,	Surveying 3,
Astronomy 1,	Astronomy 3,	Astronomy 4,
Chemistry 4,	Chemistry 5,	Chemistry 6,
Physics 9,	Physics 10,	Physics 11,
Botany 1,	Botany 2,	Botany 3,
Spanish 1,	Spanish 2,	Spanish 3,
Italian 1,	Italian 2,	Italian 3,
History 4.	History 5.	History 6.

SENIOR YEAR

Five of the following electives :

Philosophy 5,	Philosophy 6,	Philosophy 7,
Philosophy 8,	Philosophy 9,	Philosophy 10,
English 4,	English 5,	English 6,
History 4 or 7,	History 5 or 8,	History 6 or 9,
Political Science 1,	Political Science 2,	Political Science 3,
Political Economy 1,	Political Economy 2,	Political Economy 3,
Mathematics 14,	Mathematics 15,	Mathematics 16,
Mechanics 3 or 7,	Mechanics 4 or 8,	Mechanics 5,
Surveying 1,	Surveying 2,	Surveying 3,
Zoölogy 3,	Zoölogy 4,	Anthropology 1,
Geology 1,	Geology 2,	Meteorology 1,
Spanish 1,	Spanish 2,	Spanish 3,
Italian 1.	Italian 2.	Italian 3.

For Candidates for the Degree of Civil Engineer

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 1,	Mathematics 2,	Mathematics 3,
French 1 or German 4,	French 2 or German 5,	French 3 or German 6,
Drawing 2,	Drawing 3,	Drawing 4,
Drawing 1,	Drawing 5,	Drawing 6,
Rhetoric 2,	Rhetoric 3,	Rhetoric 4,
Elocution 1,	Elocution 2,	Elocution 3,
General Lecture,	Rhetoric 1,	Physiology 1,
Military Drill.	Military Drill,	Military Drill.
	Gymnasium.	

SOPHOMORE YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
German 1* or French, Mathematics 9, Physics 1, Civil Engineering 1, Chemistry 1, Drawing 7, Military Drill.	German 2* or French, Mathematics 10, Physics 2, Civil Engineering 2, Chemistry 2, Drawing 8, Military Drill, Gymnasium.	German 3* or French, Mathematics 12, Physics 3, Civil Engineering 3, Chemistry 3, Civil Engineering 4, Military Drill.

JUNIOR YEAR

Philosophy 2, Mechanics 3, Mathematics 13, Astronomy 1, Physics 6, Civil Engineering 5, Gymnasium.	Philosophy 3, Mechanics 4, Mathematics 14, Astronomy 3, Physics 7, Civil Engineering 6, Gymnasium.	Philosophy 19, Mechanics 6, Civil Engineering 8, Astronomy 4, Physics 12, Civil Engineering 7.
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SENIOR YEAR

Civil Engineering 9, Civil Engineering 12, Mechanics 7, Geology 1, Physics 9.	Civil Engineering 10, Civil Engineering 13, Mechanics 8, Geology 2, Physics 10.	Civil Engineering 11, Civil Engineering 14, Civil Engineering 15, Civil Engineering 16, Thesis.
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For Candidates for the Degree of Mechanical Engineer

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 1, French 1 or German 4, Drawing 2, Drawing 1, Rhetoric 2, Elocution 1, General Lecture, Military Drill.	Mathematics 2, French 2 or German 5, Drawing 3, Drawing 5, Rhetoric 3, Elocution 2, Rhetoric 1, Military Drill, Gymnasium.	Mathematics 3, French 3 or German 6, Drawing 4, Drawing 6, Rhetoric 4, Elocution 3, Physiology 1, Military Drill.

* Students who pursue French 1, 2, 3 during Freshman year must take German 1, 2, 3 during Sophomore year. Those who pursue German 4, 5, 6 during Freshman year must take French during Sophomore year. This note applies also to the Mechanical Engineering course, and to the Bachelor of Philosophy course,

SOPHOMORE YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 9, Chemistry 1, German 1 or French, Physics 1, Drawing 7, Kinematics, Military Drill.	Mathematics 10, Chemistry 2, German 2 or French, Physics 2, Drawing 8, Shopwork, Military Drill, Gymnasium.	Mathematics 12, Chemistry 3, German 3 or French, Physics 3, Drawing 9, Shopwork, Military Drill.

JUNIOR YEAR

Philosophy 2, Mechanics 3, Mathematics 13, Materials of Engineer- ing, Physical Laboratory, Drawing 10, Shopwork, Gymnasium.	Philosophy 3, Mechanics 4, Mathematics 14, Engineering Labora- tory,* Physical Laboratory, Drawing 11, Thermo-dynamics,* Gymnasium.	Philosophy 19, Mechanics 6, Laboratory Methods, Engineering Labora- tory,* Physical Laboratory, Drawing 12, Steam Engines and Boilers.
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SENIOR YEAR

Mechanics 7, Engineering Labora- tory,* Physical Laboratory, Machine Design,* Surveying, Shopwork, Gymnasium.	Mechanics 8, Engineering Labora- tory,* Physical Laboratory, Machine Design,* Dynamics of Ma- chines,* Shopwork, Gymnasium.	Thesis Work, Engineering Labora- tory,* Steam Engineering,* Original Design.
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NOTE.—The studies of the Junior and Senior years in the course for the degree of Civil Engineer are subject to modification.

* These courses will not be offered during 1893-94.

At the end of the Junior year, the student may take his choice of two courses offered. One is a continuation of the regular work in Mechanical Engineering and is scheduled above. The other is a special fourth year course in Electrical Engineering. The same degree is given in both cases. The alternative fourth year course is as follows :

FIRST TERM

Mechanics 7,
Engineering Laboratory,
Physics, lectures and laboratory work,
Electrical Engineering,
Dynamos, and general electrical design and drawing,
Shopwork.

SECOND TERM

Mechanics 8,
Engineering Laboratory,
Physics, lectures and laboratory work,
Electrical Engineering,
Electrical design and drawing.

THIRD TERM

Physics, lectures and laboratory work,
Electrical Engineering,
Thesis.

ELECTIVE COURSES

First Term

Philosophy 4 Sr.	Political Science 1 Jr.	Mechanics 7 Sr.
" 20 Sr.	Sr.	Drawing 16 So. Jr. Sr.
" 8 Sr.	Political Science 5 Sr.	" 2 So. Jr. Sr.
" 11 Sr.	Social Science 1 Jr. Sr.	" 7 So. Jr. Sr.
" 5 Sr.	Political Economy 1 Jr. Sr.	" 10 Jr. Sr.
Greek 4 So.	Political Economy 4 Sr.	" 15 So. Jr. Sr.
" 7 Jr. Sr.	German 4 Jr. Sr.	Civil Engineering 1 So. Jr. Sr.
" 10* Jr. Sr.	" 7 Sr.	Civil Engineering 5 Jr. Sr.
" 16* Sr.	" 16 Jr.	Civil Engineering 9 Jr. Sr.
" 21* Jr. Sr.	" 10 Jr. Sr.	Civil Engineering 12 Jr. Sr.
" 13 Sr.	" 13 Sr.	Mechanical Engineering 1 So. Jr. Sr.
Latin 4 So.	" 19 Sr.	Mechanical Engineering 2 So. Jr. Sr.
" 7 Jr. Sr.	" 22 Sr.	Mechanical Engineering 3 Jr. Sr.
" 10* Jr. Sr.	" 25 Sr.	Chemistry 1 So. Jr.
" 11* Jr. Sr.	" 28 Sr.	" 4 Jr.
Fine Arts 1 Jr. Sr.	" 31 Sr.	" 7 Sr.
" 4 Jr. Sr.	" 34 Sr.	" 10 Sr.
Hebrew 1 Jr. Sr.	French 4 So. Jr. Sr.	Physics 1 So. Jr.
" 4 Jr. Sr.	" 7 So. Jr. Sr.	" 9 Jr. Sr.
" 7 Jr. Sr.	" 13 So. Jr. Sr.	" 13 Sr.
Arabic 1 Jr. Sr.	" 22* Sr.	Astronomy 1 Jr. Sr.
Assyrian 1 Jr. Sr.	" 10 Sr.	" 8 Sr.
Oriental History 1 Jr. Sr.	" 28 Sr.	Geology 1 Sr.
Rhetoric 5 Jr. Sr.	" 16* Sr.	Comparative Anatomy 3 Jr. Sr.
" 10 Jr.	" 25* Sr.	Physiology 2 Jr.
" 13 Sr.	Italian 1 So. Jr. Sr.	Botany 1 So.
English 12 Jr. Sr.	" 4 Jr. Sr.	" 4 So. Jr. Sr.
" 24 Jr. Sr.	" 7* Jr. Sr.	" 7 So. Jr. Sr.
" 27 So. Jr.	Spanish 1 So. Jr. Sr.	
" 4 Jr. Sr.	" 4* Jr. Sr.	
" 18 Jr. Sr.	Mathematics 9 So. Jr. Sr.	
" 7 So. Jr.	Sr.	
" 20 Sr.	Mathematics 13 Jr. Sr.	
" 31 Sr.	" 15 Sr.	
History 4 Jr. Sr.	Mechanics 1 So. Jr. Sr.	
" 7 Sr.	" 3 Jr. Sr.	

* Omitted in 1893-94.

'So.' means that the study opposite which it is placed is open to election by members of the Sophomore Class, subject to the conditions prescribed for each course. In the same way 'Jr.' and 'Sr.' refer to Juniors and Seniors. In selecting the studies for any particular term the student is advised to note carefully the courses of subsequent terms, in order to pursue the courses which he elects according to an orderly and progressive plan. It is usually far better to pursue a series of related subjects continuously than to remit them for others for a time and then resume. Further, when a study is open to students of several years, it is not intended that those of the first year named should consider themselves obliged or expected to take it in that year.

Second Term

Philosophy 21 Sr.	English 16 So. Jr. Sr.	Mechanics 8 Sr.
" 9 Sr.	" 32 Sr.	Drawing 3 So. Jr. Sr.
" 12 Sr.	History 5 Jr. Sr.	Drawing 17 So. Jr. Sr.
" 6 Sr.	" 8 Sr.	" 8 So. Jr. Sr.
" 16 Sr.	Political Science 2 Jr.	" 11 Jr. Sr.
" 17 Sr.	Sr.	" 13 So. Jr. Sr.
" 23 Sr.	Political Science 6 Sr.	Civil Engineering 2 So.
" 26 Jr. Sr.	Social Science 2 Jr. Sr.	Jr. Sr.
Greek 5 So.	Political Economy 2*	Civil Engineering 6 Jr.
" 8 Jr. Sr.	Jr. Sr.	Sr.
" 11* Jr. Sr.	Political Economy 6	Civil Engineering 10
" 17* Sr.	Sr.	Jr. Sr.
" 19 Jr. Sr.	German 5 Jr. Sr.	Civil Engineering 13
" 21* Jr. Sr.	" 8 Sr.	Jr. Sr.
" 22 So. Jr. Sr.	" 17 Jr. Sr.	Mechanical Engineer-
" 14 Sr.	" 11 Jr. Sr.	ing 2 So. Jr. Sr.
" 19 Jr. Sr.	" 14 Sr.	Mechanical Engineer-
Latin 5 So.	" 20 Sr.	ing 4 Jr. Sr.
" 8 Jr. Sr.	" 23 Sr.	Chemistry 2 So.
" 10* Jr. Sr.	" 26 Sr.	" 5 Jr.
" 12* Jr. Sr.	" 29 Sr.	" 8 Sr.
Fine Arts 2 Jr. Sr.	" 32 Sr.	" 11 Sr.
" " 5 Jr. Sr.	" 35 Sr.	" 13 Sr.
Hebrew 2 Jr. Sr.	French 5 So. Jr. Sr.	" 15 Sr.
" 5 Jr. Sr.	" 8 So. Jr. Sr.	" 17 Sr.
Aramaic 1 Jr. Sr.	" 14 So. Jr. Sr.	Physics 2 So. Jr.
Arabic 2 Jr. Sr.	" 23* Sr.	" 10 Jr. Sr.
Assyrian 2 Jr. Sr.	" 11 Sr.	" 14 Sr.
Oriental History 2 Jr.	" 29 Sr.	Astronomy 2 Jr. Sr.
Sr.	" 17* Sr.	" 3 Jr. Sr.
Rhetoric 6 Jr. Sr.	" 26* Sr.	" 9 Sr.
" 11 Jr.	Italian 2 So. Jr. Sr.	Zoology 1 Jr. Sr.
" 14 Sr.	" 5 Jr. Sr.	Geology 2 Sr.
English 10 So. Jr. Sr.	" 8* Jr. Sr.	Comparative Anatomy
" 13 Jr. Sr.	Spanish 2 So. Jr. Sr.	4 Jr. Sr.
" 25 Jr. Sr.	" 5* Jr. Sr.	Physiology 3 Jr.
" 28 So. Jr.	Mathematics 10 So. Jr.	Botany 2 So.
" 5 Jr. Sr.	Sr.	" 5 So. Jr. Sr.
" 19 Jr. Sr.	Mathematics 14 Jr. Sr.	" 8 So. Jr. Sr.
" 8 So. Jr.	Mechanics 2 So. Jr. Sr.	Military Science Jr. Sr.
" 21 Sr.	" 4 Jr. Sr.	

* Omitted in 1893-94.

Third Term

Philosophy 1 So. Jr.	History 11 Jr. Sr.	Drawing 14 So. Jr. Sr.
" 4 Jr.	" 6 Jr. Sr.	Civil Engineering 3
" 22 Sr.	" 9 Sr.	So. Jr. Sr.
" 10 Sr.	Political Science 3 Jr.	Civil Engineering 4
" 13 Sr.	Sr.	So. Jr. Sr.
" 15 Sr.	Political Science 4 Sr.	Civil Engineering 7 Jr.
" 7 Sr.	Social Science 3 Jr. Sr.	Sr.
" 18 Sr.	" 4 Sr.	Civil Engineering 8 Jr.
" 24 Sr.	Political Economy 3	Sr.
" 25 Sr.	Jr. Sr.	Civil Engineering 11
" 27 Sr.	Political Economy 5	Jr. Sr.
" 28 Sr.	Sr.	Civil Engineering 14
Greek 6 So.	German 6 Jr. Sr.	Jr. Sr.
" 9 Jr. Sr.	" 9 Sr.	Civil Engineering 15
" 12* Jr. Sr.	" 18 Jr. Sr.	Jr. Sr.
" 18* Sr.	" 12 Jr. Sr.	Civil Engineering 16
" 20 Jr. Sr.	" 15 Sr.	Jr. Sr.
" 22 So. Jr. Sr.	" 21 Sr.	Mechanical Engineer-
" 15 Sr.	" 24 Sr.	ing 2 So. Jr. Sr.
" 20 Jr. Sr.	" 27 Sr.	Mechanical Engineer-
Latin 6 So.	" 30 Sr.	ing 5 Jr. Sr.
" 9 Jr. Sr.	" 33 Sr.	Mechanical Engineer-
" 10* Jr. Sr.	" 36 Sr.	ing 6 Jr. Sr.
" 13* Jr. Sr.	French 6 So. Jr. Sr.	Chemistry 3 So.
Fine Arts 3 Jr. Sr.	" 9 So. Jr. Sr.	" 6 Jr.
" 6 Jr. Sr.	" 15 So. Jr. Sr.	" 9 Sr.
Hebrew 3 Jr. Sr.	" 24* Sr.	" 12 Sr.
" 6 Jr. Sr.	" 12 Sr.	" 14 Sr.
Aramaic 2 Jr. Sr.	" 30 Sr.	" 16 Sr.
Arabic 3 Jr. Sr.	" 18* Sr.	" 18 Sr.
Assyrian 3 Jr. Sr.	" 21 Sr.	" 20 Sr.
Oriental History 3 Jr.	" 27* Sr.	Physics 12 Jr. Sr.
Sr.	Italian 3 So. Jr. Sr.	" 3 So. Jr. Sr.
Rhetoric 7 Jr. Sr.	" 6 Jr. Sr.	" 8 So. Jr. Sr.
" 12 Jr.	" 9* Jr. Sr.	" 11 Jr. Sr.
" 15 Sr.	Spanish 3 So. Jr. Sr.	Astronomy 4 Jr. Sr.
English 11 So. Jr. Sr.	" 6* Jr. Sr.	" 7 Jr. Sr.
" 14 Jr. Sr.	Mathematics 8 So. Jr.	" 10 Sr.
" 26 Jr. Sr.	Sr.	Meteorology 1* Jr. Sr.
" 29 So. Jr.	Mathematics 11 So. Jr.	Anthropology 1 Sr.
" 6 Jr. Sr.	Sr.	Comparative Anatomy
" 9 So. Jr.	Mathematics 12 So. Jr.	1 So.
" 17 Jr. Sr.	Sr.	Comparative Anatomy
" 22 Sr.	Mechanics 5 So. Jr. Sr.	2 Jr. Sr.
" 17 So. Jr. Sr.	" 6 Jr. Sr.	Botany 3 So.
" 30* So. Jr.	Drawing 4 So. Jr. Sr.	" 6 So. Jr. Sr.
" 33 Sr.	" 18 So. Jr. Sr.	
History 3 Jr. Sr.	" 9 So. Jr. Sr.	
	" 12 Jr. Sr.	

II, The Courses of Instruction Arranged According to Departments

In the following pages the studies are arranged by departments, in order to show the courses available to the student in each subject. The Honor Courses presented are special courses of reading assigned to students wishing to do extra work. As such assignments vary with individual students, the Honor Courses named are to be regarded simply as specimens.

I, PHILOSOPHY

PRESIDENT ANDREWS, PROFESSORS SETH, DELABARRE AND UPTON,
DR. FORBUSH AND MR. JACOBS.

1, *Logic*. Three hours. Third Term. Offered every other year. Elective for Sophomores and Juniors.

PROFESSOR DELABARRE

This course will alternate with course 27, and will be omitted in 1893-94.

2, 3, *Psychology*. General Synthetic Course. Three hours. First and Second Terms respectively. Required of all Juniors.

PROFESSOR DELABARRE

4, *Psychology*. Laboratory Course. Experiments by the students in the main lines of psychological research. Three hours. Third Term. Elective for Juniors, Seniors, and graduates qualified for the work.

PROFESSOR DELABARRE

20, 21, 22, *Psychology*. Advanced Course. Experimental investigation of special problems, and Seminary for discussions, essays, and lectures. Three hours. First, Second and Third Terms respectively. Elective for Seniors who have passed in Course 4.

PROFESSOR DELABARRE

19, *Philosophical Introduction*. Intended to explain the origin, aim, and divisions of philosophical inquiry, and its relation to the

special sciences; to criticise the ordinary and scientific interpretations of the world; and to acquaint the student with the chief logical, metaphysical, and ethical problems and the typical solutions of them. Three hours. Third Term. Required of all Juniors.

PROFESSOR SETH

27, *Scientific Method*. Identical with Astronomy 7, which see.

PROFESSOR UPTON

8, *History of Greek Philosophy*. Three hours. First Term. Elective for Seniors and graduates.

PROFESSOR SETH

9, *History of Mediaeval and Early Modern Philosophy*. Three hours. Second Term. Elective for Seniors and graduates who have passed in Course 8.

PROFESSOR SETH

10, *History of Recent and Contemporary Philosophy*. Three hours. Third Term. Elective for Seniors and graduates who have passed in Courses 8 and 9.

PROFESSOR SETH

11, 12, 13, *Course in Authors*. Three hours. First, Second and Third Terms respectively. Elective for Seniors and graduates.

PROFESSOR DELABARRE

In 1893-94, the following authors will probably be read: First Term, Plato; Second Term, Descartes and Spinoza; Third Term, Locke, Berkeley and Hume.

5, *Theoretical Ethics*. The Moral Ideal. Three hours. First Term. Elective for Seniors and graduates.

PROFESSOR SETH

23, *Theoretical Ethics*. The Virtues and Moral Institutions, with special reference to the Ethical Basis of the State. Two hours. Second Term. Elective for Seniors and graduates. Course 17 may well be taken with this, making a three-hour course.

PROFESSOR SETH

6, 15, *Practical Ethics*. Three hours. Second and Third Terms respectively. Elective for Seniors and graduates.

THE PRESIDENT

17, 18, *Conversations in Casuistry*. One hour. Second and Third Terms respectively. Elective for Seniors and graduates.

THE PRESIDENT

16, 7, *Philosophy of Religion*. Three hours. Second and Third Terms respectively. Elective for Seniors and graduates who have passed in Course 5.

PROFESSOR SETH

24, *Philosophy of Religion*. The Contents of the Religious, particularly of the Christian Consciousness, in the light of its Development. Two hours. Third Term. Elective for Seniors and graduates. Course 25 may conveniently be joined with this.

PROFESSOR SETH

25, *Instruction in the Christian Religion*. One hour. Third Term. Elective for Seniors and graduates.

THE PRESIDENT

14, *Philosophical Seminary*. Papers, followed by discussion, on the more difficult problems of philosophy. Two hours. Through the year. Elective for graduate and honor students. The subject of study for 1893-94 is Aristotle's *Nicomachean Ethics*.

PROFESSOR SETH

26, *Comparative Religion*. Three hours. Second Term. Elective for Juniors, Seniors and graduate students.

DR. FORBUSH

28, *Pedagogy*. The history, theory and practice of organized education. Specially intended for those who expect to become teachers. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

MR. JACOBS

Honors will be offered in connection with courses 8, 9, 10; 11, 12, 13; 5, 16, 7; and 20, 21, 22.

Philosophical Club. An organization consisting of graduates and Senior students, with the instructors in the department, for the independent discussion of philosophical questions. See further, under Philosophy, in General Description of the Departments.

II, GREEK LITERATURE AND HISTORY

PROFESSOR MANATT, DR. NEWHALL AND MR. GREENE

- 1, *Herodotus*. Greek History to end of Persian Wars. Practice in sight-reading, and in hearing and speaking Greek, on the basis of the text in hand. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR MANATT, DR. NEWHALL AND MR. GREENE

- 2, *Thucydides* (selections) and *Xenophon* (Hellenica II). Greek History to the Downfall of Athens. Practice in sight-reading, and in using Greek, as above. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR MANATT, DR. NEWHALL AND MR. GREENE

- 3, *Homer*. The Odyssey. Greek History to the Death of Alexander. The Homeric Question. The Life of the Heroic Age as revealed in the Poems, and illustrated by recent archaeological research. Practice in sight-reading and rendering into Attic prose. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR MANATT, DR. NEWHALL AND MR. GREENE

- 4, *Plato*. Apology and Crito, with parts of the Phaedo, and parallel reading in the *Memorabilia* of Xenophon. Three hours. First Term. Elective for Sophomores.

DR. NEWHALL

- 5, *Aeschylus* and *Sophocles*. Two plays. Collateral reading of Aristophanes' Clouds, and Milton's *Samson*. Development of the Drama. The Theatre at Athens. Practical exercises in the use of Greek on the subject-matter in hand. Three hours. Second Term. Elective for Sophomores.

PROFESSOR MANATT AND DR. NEWHALL

- 6, *Lysias* and *Demosthenes*. Selected speeches. Collateral reading. Plutarch's Life of Demosthenes. Development of Attic Oratory. Judicial and parliamentary procedure at Athens. Practical exercises in the use of Greek on the subject-matter in hand. Three hours. Third Term. Elective for Sophomores.

PROFESSOR MANATT AND DR. NEWHALL

- 7, 8, 9, *The Historians*. Herodotus, Thucydides and Xenophon, with parallel reading in Plutarch's Lives, followed by an outline sketch of the later history down to the present day. Three hours. Through the year. Elective for Juniors and Seniors who have completed Courses 1-6, or equivalent work.

PROFESSOR MANATT

- 10, 11, 12, *The Orators*. Lysias and Demosthenes, with representative speeches of other Attic orators from Antiphon to Lysurgus. Given in 1894-5, and then alternating with 7, 8, 9.

PROFESSOR MANATT

- 13, 14, 15, *Epic and Lyric Poetry*. Homer, Hesiod and Pindar, with selections from the Anthology. Three hours. Through the year. Elective for Seniors and graduates.

DR. NEWHALL

- 16, 17, 18, *The Dramatists*. Aeschylus and Sophocles, with selected plays of Euripides and Aristophanes. Three hours. Through the year. Elective for Seniors and graduates. Given in 1894-5, and then alternating with 13, 14, 15.

DR. NEWHALL

- 19, *The Constitutional History of Athens*, on the basis of Aristotle's *Politeia*. One hour. Second Term. Elective for Juniors and Seniors.

PROFESSOR MANATT

- 20, *The Topography and Monuments of Greece*, on the basis of Pausanias. One hour. Third Term. Elective like Course 19.

PROFESSOR MANATT

Primarily, 19 and 20 are auxiliary to the full course in the Greek Historians, but they are open also to students not electing that course.

- 21, *The Public Life of the Greeks*. One hour. First and Second Terms. To be given in 1894-5 with the course in the orators. Elective for Sophomores, Juniors, Seniors and graduates.

- 22, *Modern Greek*. One hour. Second and Third Terms. Elective like Course 21.

PROFESSOR MANATT AND DR. NEWHALL

HONOR COURSES

Students studying for honors in Greek are allowed a large option. The following courses may serve as illustrations of what is desired :

- a, Homer, eight or ten books of the Odyssey. Jebb's Introduction to Homer. Gladstone's Homeric studies. Demosthenes and Aeschines, one or more characteristic orations of each. Jebb's Attic orators. Aeschylus, one or more tragedies. Aristophanes, the Clouds and the Acharnians. Historical Development of the Greek Drama. Plato, the Phaedo, and one or more of the other Dialogues. Early History of Greek Philosophy. Studies in Greek Literature.
- b, Herodotus, the Persian Wars. Aeschylus, the Persians. Plutarch's Life of Themistocles. Thucydides, Peloponnesian War. Plutarch's Pericles and Alcibiades. Grote, Curtius and Abbott, History of Greece in the Fifth Century before Christ. Rawlinson's Herodotus.
- c, Homer, eight or ten books of the Iliad. Studies in Greek Grammar and in Greek Etymology. Meyer, *Griechische Grammatik*. Munro's Homeric Grammar. Brugmann, (1) Comparative Grammar of the Indo-Germanic Languages, vol. 1; (2) *Griechische Grammatik*. Müller, *Handbuch der klassischen Alterthumswissenschaft*. Papillon, Comparative Philology. B. Delbrück, (1) *Der Gebrauch des Conjunctivs und Optativs im Sanskrit und griechischen*; (2) *Ablative, Localis, Instrumentalis*. G. Curtius, (1) *Das Verbum der griechischen Sprache*; (2) *Grundzüge der griechischen Etymologie*. Selections from the Greek Orators. History of Greek Oratory.

III, ROMAN LITERATURE AND HISTORY

PROFESSOR HARKNESS AND MR. EVERETT

1, *Livy*. Early Roman History. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HARKNESS AND MR. EVERETT

2, *Cicero*. Letters. Cicero and his times. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HARKNESS AND MR. EVERETT

3, *Tacitus*, *Germania* and *Agricola*. History of the Early Empire. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HARKNESS AND MR. EVERETT

4, *Horace*. Odes and Epodes. Ovid's Lyrics. Lectures on Lyric Poetry. Three hours. First Term. Elective for Sophomores.

PROFESSOR HARKNESS

5, *Catullus*, *Tibullus*, and *Propertius*. Lyric Poetry continued. Three hours. Second Term. Elective for Sophomores.

PROFESSOR HARKNESS

6, *The Satires of Horace and Juvenal*. Roman Life. Three hours. Third Term. Elective for Sophomores.

PROFESSOR HARKNESS

7, *The Origin of Latin Poetry and the Development of the Drama*. Readings from Plautus and Terence. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

8, *The Poetry of the Republic continued and the Poetry of the Augustan Age*. Readings from Lucretius and other Authors of this period. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

9, *The Poetry of the Silver Age*. Readings from Authors of the period. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

10, *Private Life and Antiquities of Rome*. Illustrated by the stereopticon. One hour. Through the year. Elective for Juniors, Seniors and graduates. Offered in 1894-95.

PROFESSOR HARKNESS

11, *Prose of the Republican Period*. The development of Oratory. Readings from Specimens of Early Latin, from Cicero's *Brutus*, and from Quintilian. Three hours. First Term. Elective for Juniors and Seniors. Offered in 1894-95.

PROFESSOR HARKNESS

12, *Prose of the Augustan Age*. The Development of Historical Writing. Readings from the Historians. Three hours. Second Term. Elective for Juniors and Seniors. Offered in 1894-95.

PROFESSOR HARKNESS

13, *Prose of the Silver Age*. Roman Philosophy. Readings from Seneca and from other authors of this period. Three hours. Third Term. Elective for Juniors and Seniors. To be offered in 1894-95.

PROFESSOR HARKNESS

The object of Courses 11-13 is to give a connected idea of the development and History of Latin Prose. These courses alternate with corresponding courses on the history of Latin Poetry.

HONOR COURSES

A wide range of choice is allowed students who read for honors. The following courses may serve as examples of what is recommended.

- a, F. D. Allen, *Remnants of Early Latin*. Wordsworth, *Fragments and Specimens of Early Latin*. Plautus, three or four plays. Cato, *De Re Rustica*. Selections from Quintilian and from Aulus Gellius. Strong, Logeman, Wheeler, *Introduction to the Study of Language*. Brugmann, *Comparative Grammar*, Seelman, *Die Aussprache des Latein*. Stolz and Schmalz, *Lateinische Grammatik*. Bréal et Bailly, *Dictionnaire étymologique latine*. Vaníček, *Etymologisches Wörterbuch der lateinischen Sprache*.
- b, Selections from the following: Plautus, Terence, Vergil's *Georgics*, Ovid's *Elegies*, Seneca's *Tragedies*, Martial. *Histories of Roman Literature*: Teuffel, Crutwell. Sellar, *The Roman Poets*. Moulton, *The Ancient Classical Drama*. Patin, *Études sur la poésie latine*. Ribbeck, *Geschichte der römischen Dichtung*.
- c, Selections from Lucretius, from Cicero's *Philosophical Writings*, and from Seneca's *Essays and Epistles*. Mayor, *History of Ancient Philosophy*. Wallace, *Epicureanism*. Masson, *The Atomic Theory of Lucretius*. Capes, *Stoicism*. Zeller, *The Stoics, Epicureans, and Sceptics*. Martha, *Le Poème de Lucrèce*.
- d, Selections from the following: Caesar, Livy, Tacitus, Suetonius, Curtius. *Histories of Rome*: Mommsen's, Ihne's, Duruy's, Arnold's. Merivale, *History of the Romans under the Empire*. Mommsen, *Provinces of the Roman Empire*. Arnold, *Roman Provincial Administration*. Sir G. C. Lewis, *Credibility of the Early Roman History*. Nisard, *Les Quatre Grands Historiens Latins*.

IV, THE FINE ARTS

PROFESSOR POLAND

1, *Classical Archaeology*. General course in the history of ancient art. Collignon's Manual of Greek Archaeology, Wright's translation. Lectures, illustrated by plaster casts, photographs, engravings, etc., with collateral reading. Three hours. First Term. Elective for Juniors, Seniors and graduates.

2, *Classical Archaeology*. Special advanced course for those who have taken Course 1. Lectures and discussions of special topics. Three hours. Second Term. Elective for those who have completed Course 1.

3, *Classical Archaeology*. Special advanced course in continuation of Course 2. Special topics in archaeology and epigraphy. Three hours. Third Term. Elective for those who have completed Courses 1 and 2.

4, *Early Christian, Byzantine, Arabian and Romanesque Art*. Three hours. First Term. Elective for Juniors, Seniors and graduates.

5, *Gothic Art*. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

6, *The Art of the Renaissance. Modern Art*. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

Courses 4, 5, and 6 may be taken independently of each other and of Courses 1, 2, and 3. But Course 1 is so important, not only in itself, but as preparatory to the study of Art in all periods, that students are strongly advised to take it, when possible, before taking any other course in the History of Art.

Instruction will be given by text-books and by lectures, illustrated by plaster casts and lantern views.

7, 8, 9, Special courses are offered each term to graduates and other advanced students who have completed either Courses 1, 2, and 3, or 4, 5, and 6, or their equivalents.

V, SEMITIC LANGUAGES AND ORIENTAL HISTORY

PROFESSOR JEWETT

HEBREW

- 1, 2, 3, *Hebrew Accidence*. Harper's Introductory Hebrew Method and Manual, Harper's Elements of Hebrew, the Hebrew Bible. Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors.
- 7, *Hebrew Syntax*. Harper's Elements of Hebrew Syntax. Reading of selected portions of the Historical Books and of the Psalms. Three hours. First Term. Elective for Juniors and Seniors.
- 4, 5, 6, *Critical Study of the Book of Isaiah*. One hour. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

ARAMAIC

- 1, *Classical Aramaic* (Syriac). Nöldeke's *Syrische Grammatik*. Roediger's *Chrestomathia Syriaca*. Three hours. Second Term. Elective for Juniors, Seniors and graduates.
- 2, *Biblical Aramaic*. Brown's Aramaic Method. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

ARABIC

- 1, 2, 3, *Lansing's Arabic Manual*. Selected texts from one of the Beirût Chrestomathies. Three hours. First, Second, and Third Terms respectively. Elective for Juniors, Seniors and graduates.

ASSYRIAN

- 1, 2, 3, *Lyon's Assyrian Manual*. Abel and Winckler's *Keilschrifttexte*. Three hours. First, Second, and Third Terms respectively. Elective for Juniors, Seniors and graduates.

ORIENTAL HISTORY

- 1, *Oriental History from the Earliest Times to the Birth of Mohammed*. Recitations, informal lectures, and supplementary reading. Three hours. First Term. Elective for Juniors, Seniors and graduates.

- 2, *The Rise and Spread of Islam.* Recitations, informal lectures, and supplementary reading. Three hours. Second Term. Elective for Juniors, Seniors and graduates.
- 3, *History of the Crusades.* Recitations, informal lectures and supplementary reading. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

The three courses in Oriental History may be taken independently of each other.

VI, RHETORIC AND ORATORY

PROFESSOR SEARS, MR. BRINK, AND MESSRS. COLVIN, DEALEY,
DURKEE, MEIKLEJOHN, MERRILL, STONE AND WIGHTMAN

- 1, *Elementary Rhetoric.* One hour. Second Term. Required of all Freshmen.

PROFESSOR SEARS

- 2, 3, 4, *Practical Rhetoric.* Three hours. First, Second, and Third Terms respectively. Required of all Sophomores.

PROFESSOR SEARS AND MR. BRINK

- 5, 6, 7, *Historical Course.* One hour. Through the year. Elective for Juniors, Seniors and graduates.

PROFESSOR SEARS

- 10, 11, 12, *Advanced Composition.* Theme Writing. One hour. Through the year. Open to Juniors and graduates whose previous work in English Composition qualifies them to pursue this Course.

PROFESSOR SEARS

- 13, 14, 15, *Advanced Composition.* Theme Writing. One hour. Through the year. Open to Seniors and graduates whose previous work in English Composition qualifies them to pursue this Course.

PROFESSOR SEARS

- 19, 20, 21, *Elocution.* Lectures. Exercises on the Development and Culture of the Speaking Voice. Lectures, with illustrative examples, on the General Principles of Elocutionary Art. Individual training. Declamations. One hour. Through the year. Required of all Sophomores.

MR. BRINK

- 22, 23, 24, *Oratory*. Lectures. General Principles of Oratorical Composition. The preparation and rehearsal of Orations, with subsequent delivery before the class for criticism and discussion. One hour. Through the year. Required of all Juniors.

MR. BRINK

HONOR COURSE

Hill's Science of Rhetoric, with references to different authors upon various rhetorical principles.

VII, ENGLISH LITERATURE AND LANGUAGE

PROFESSORS MANLY AND BRONSON

- 10, 11, *Elementary Course in Anglo-Saxon*. Three hours. Second and Third Terms. Elective for Sophmores, Juniors and Seniors.

PROFESSOR MANLY

- 12, 13, 14. *Advanced Course in Anglo-Saxon*. Béowulf, and the Elene; with lectures on the History of English Sounds. Three hours. Through the year. Elective for those who have taken Courses 10 and 11. Omitted in 1894-95.

PROFESSOR MANLY

- 24, 25, 26. *Middle English from the Conquest to Chaucer*. Three hours. Through the year. Elective for those who have taken Courses 10 and 11. Omitted in 1893-94; offered in 1894-95.

PROFESSOR MANLY

- 27, 28, *Chaucer*. Three hours. First and Second Terms. Elective for Sophmores and Juniors

PROFESSOR MANLY

- 29, *Spenser*. With a brief survey of the poetry between Chaucer and Spenser. A study of Spenser's Language, Art, and Ethical Ideas. Recitations and critical papers by the class. Lectures. Three hours. Third Term. Elective for Sophmores and Juniors. Omitted in 1894-95.

PROFESSOR BRONSON

- 4, 5, 6, *Shakspeare*. Three hours. Through the year. Elective for Juniors and Seniors. May be taken two years in succession.

PROFESSOR MANLY

- 30, *Milton*. A Study of Milton's Poetry, and of the *Areopagitica*, with regard to Language, Art, and Political, Ethical, and Religious Ideas. Method of work as in Course 29. Three hours. Third Term. Elective for Sophomores and Juniors. Offered in 1894-95.

PROFESSOR BRONSON

- 31, 32, 33, *Eighteenth Century Literature* (exclusive of the novel). Three hours. Through the year. Elective for Seniors.

PROFESSOR MANLY

- 18, 19, *The Novel*. Eighteenth Century Fiction. Wide reading in Defoe, Richardson, Fielding, Smollett, Sterne, and the lesser novelists. Method of work as in Course 29. Three hours. First and Second Terms. Elective for students who have passed in three literature courses.

PROFESSOR BRONSON

- 7, 8, 9, *Nineteenth Century English Poetry*. Wordsworth, Byron, Shelley, Keats, Tennyson, Browning, and the minor poets. Special studies of poetic diction, versification, figures of speech in poetry, description and narration in poetry. Method of work as in Course 29. Three hours. Through the year. Elective for Sophomores and Juniors.

PROFESSOR BRONSON

- 16, 17, *American Literature*. The greater poets, and prose writers exclusive of orators and novelists. Lectures on the Colonial and Revolution Periods. Method of work as in Course 29. Three hours. Second and Third Terms. Elective for students who have passed in Course 7, or in two other literature courses.

PROFESSOR BRONSON

- 20, 21, 22, *Seminary*. A weekly two hour session. Through the year. Membership limited to eight. Papers by members, one from each each term, followed by discussion. For 1893-4: First Term, History of English Literary Criticism; Second Term, English Lyric Poets of the Age of Charles I; Third Term, English Essayists.

PROFESSOR BRONSON

HONOR COURSES

Courses leading to Honors in English are offered in connection with 1, 2, 3; with 4, 5, 7; with 7, 8, 9; with 18, 19.

VIII, HISTORY

PROFESSORS JAMESON AND MUNRO

- 1, *General Mediaeval History of Europe*. Recitations and lectures, reports by members of the class, and supplementary readings. Three hours. First term. Required of all Juniors.

PROFESSOR MUNRO

- 2, *General Modern History of Europe*. Methods as indicated under Course 1. Three hours. Second Term. Required of all Juniors.

PROFESSOR MUNRO

- 3, *History of the Reformation*. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

PROFESSOR MUNRO

- 4, *English Constitutional and Political History to 1625*. Methods as indicated under Course 1. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

- 5, *English Constitutional and Political History since 1625*. Methods as in Course 1. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

- 6, *History of Europe since 1815*. Methods as in Course 1. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

- 7, *Constitutional and Political History of the United States to 1801*. Methods as in Course 1. Three hours. First Term. Elective for Seniors.

PROFESSOR JAMESON

- 8, *Constitutional and Political History of the United States since 1801*. Methods as in Course 1. Three hours. Second Term. Elective for Seniors.

PROFESSOR JAMESON

- 9, *Practical Exercises in American History*. Methods: individual research, practice in the use of sources, instruction of students individually, occasional meetings in class. Three hours. Third Term. Elective for Seniors who have completed Courses 7 and 8, and for graduates.

PROFESSOR JAMESON

- 10, *Principles of Historical Criticism.* Lectures and exercises. One hour. Through the year. Elective for graduates.

PROFESSOR JAMESON

- 11, *History of the Renaissance.* Three hours. Third Term. Elective for Juniors, Seniors and graduates.

PROFESSOR MUNRO

- 12, *Practical Exercises in Historical Criticism.* English History from 1066 to 1215. One hour. Third Term. Elective for graduates.

PROFESSOR JAMESON

- 13, *The History of Historical Writing in Modern Europe.* Lectures. One hour. First and Second Terms. Elective for graduates.

PROFESSOR JAMESON

SEMINARY

The Seminary of History, Political Economy and Political Science, consisting of Professors Jameson, Gardner, Munro and Wilson, the graduate students in the subjects named, and a few of the most advanced undergraduates, meets once in two weeks. Its meetings are devoted to original papers, to reports upon studies of method, and to the historical, economical and political reviews and journals.

HONOR COURSES

Honor Courses are arranged in connection with History 1, 2, 3; History 1, 2, 6; History 1, 2, 11, History 4, 5, 6; History 7, 8, 9.

IX, POLITICAL AND SOCIAL SCIENCE

PROFESSORS WILSON AND JAMESON

POLITICAL SCIENCE

- 1, *The State.* Its origin, development, conditions, forms, end, and functions. Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

- 2, *The Comparative Study of Constitutions.* Especially those of Germany, France, England, and the United States. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

- 3, *International Law and Relations.* Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

- 4, *Constitution and Politics of the United States.* Lectures, Recitations and Essays. Three hours. Third Term. Elective for Seniors.

PROFESSOR JAMESON

- 5, *Development of Political Theory.* Lectures and exercises. Three hours. First Term. Elective for graduates and for other students who have completed Courses 1, 2, and 3, or 1, 2, and 4.

PROFESSOR WILSON

- 6, *Roman Law.* Three hours. Second Term. Elective as in Political Science 5.

PROFESSOR WILSON

ELEMENTARY LAW

- 1, 2, 3, *Elementary Law.* Evidence, Property, Contracts. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

- 4, 5, 6, *Elementary Law.* Torts, Criminal Law, Pleading. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

Courses 1, 2, 3 and 4, 5, 6 will alternate, each group being offered every other year.

SOCIAL SCIENCE

- 1, *The Principles of Sociology and the Development of Primitive Civilization.* Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

- 2, *Modern Social Problems.* Charity, Penology, Criminology, History of Punishments, Marriage, Divorce. Lectures. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

- 3, *Modern Social Problems.* Temperance, Education, Labor Movements, Indians, Social Legislation, and Municipal Government. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

- 4, *Social Philosophy.* Lectures and exercises. Three hours. Third Term. Elective for graduates, and for others who have completed Social Science 1, 2 and 3.

PROFESSOR WILSON

HONOR COURSES

Honor Courses are arranged in connection with Political Science 1, 2, 3; Political Science 1, 2, 4; Social Science 1, 2, 3.

X, POLITICAL ECONOMY

PROFESSOR GARDNER

- 1, 2, 3, *Elementary Course.* Based upon Ely's Outlines of Economics, supplemented by lectures, and upon readings in standard authors. Essays. Three hours. First, Second, and Third Terms respectively. Elective for Juniors and Seniors.
- 4, *History of Economic Thought.* Lectures. Ingram's History of Political Economy. Readings in the authors discussed. Three hours. First Term. Elective for Seniors.
- 6, *Money and Banking.* A discussion of the theory of money and credit, a description of existing monetary and credit systems, and a discussion of current problems in these fields. Jevons's Money and the Mechanism of Exchange, Dunbar's Theory and History of Banking, and Taussig's The Silver Question in the United States. Three hours. Second Term. Elective for Seniors and graduates.
- 5, *Public Finance.* Lectures. Bastable's Public Finance. Description and comparison of the financial systems of the United States and foreign nations, including local finance and discussion of the principles of taxation. Three hours. Third Term. Elective for Seniors and graduates.

Advanced courses are open only to Seniors and graduate students who have completed the elementary course.

HONOR COURSES

The following will serve as examples of Honor Courses in Political Economy:

- 1, In connection with the elementary course. Walker, Political Economy, advanced course; Roscher, Political Economy, English translation; Alfred Marshall, Principles of Economics; Cairnes, Political Economy, Its Character and Logical Method; Keynes, Scope and Method of Political Economy.
- 2, Special subject, *Banking*. Walker, Political Economy, advanced course. Gilbart, History, Principles and Practice of Banking. Bagehot, Lombard Street, Jevons, Money and the Mechanism of Exchange. Wagner, *Credit-und Bankwesen*, in Schönberg's *Handbuch der Pol. Oek.* Dunbar, Theory and History of Banking. Portions of Bolles's Practical Banking. A study of Banking in the United States, based principally on Richardson's National Banks and the reports of the Comptroller of the Currency.

XI, GERMANIC LANGUAGES AND LITERATURES

PROFESSOR WILLIAMS, DR. SCOTT, MESSRS. CROWELL AND
LEONARD

- 1, *Elementary Course*. Whitney's Brief German Grammar, study of forms and composition, and reading of easy selections from Brandt's German Reader. Three hours. First Term. Required of all Sophomores.

MESSRS. CROWELL AND LEONARD

- 2, *Intermediate Course*. Study of syntax, themes in composition, and reading of selections in prose and verse from Grube, Richter, Freytag, Dielitz, Goethe, Schiller, Heine, Uhland. Reading at sight. Three hours. Second Term. Required of Sophomores.

MESSRS. CROWELL AND LEONARD

- 3, *Heine*. Life and works, with extended readings in his Lyrics. Reading at sight. Three hours. Third Term. Required of Sophomores.

MESSRS. CROWELL AND LEONARD

- 4, *Schiller*. Schiller's Dramatic Works, with lectures by the Instructor and essays by the class. One complete drama read in class. Three hours. First Term. Elective for those who have passed in Courses 1, 2, and 3.

PROFESSOR WILLIAMS AND MR. CROWELL

- 5, *Schiller*. Schiller's *Balladen und Romanzen*, with lectures by the Instructor and essays by the class. Three hours. Second Term. Elective for those who have passed in Courses 1, 2, and 3.

PROFESSOR WILLIAMS AND MR. CROWELL

- 6, *Lessing*. Lessing's Dramatic Works. Lectures. Essays. One complete drama read in class. Three hours. Third Term. Elective for those who have passed in Course 5.

PROFESSOR WILLIAMS AND MR. CROWELL

- 7, 8, 9, *Goethe*. Goethe's Dramatic Works. Lectures. Essays. *Iphigenie*, *Egmont*, and *Faust* read in class. Elective for those who have passed in Courses 4, 5, and 6.

PROFESSOR WILLIAMS

- 16, 17, 18, *Lectures on German Literature*. First Term. From the beginning to Klopstock, 1748. Second Term. Klopstock, Herder, Lessing, Wieland, the Göttingen *Dichterbund*, and the *Sturm-und-Drang* Period. Third Term. Goethe and Schiller, the Romantic School, and the Modern Realistic School. Daily reports by class, with critical study of selected subjects, and theses. Three hours. Through the year. Elective for those who have passed in Courses 1, 2, and 3.

PROFESSOR WILLIAMS

- 10, 11, 12, *Middle High German*. Elementary. Paul's *Mittelhochdeutsche Grammatik*. The *Nibelungenlied*. Lectures and essays. One hour. Through the year. Elective for Juniors, Seniors and graduates.

PROFESSOR WILLIAMS AND DR. SCOTT

- 13, *Middle High German*. Second Year. *Minnegesang*. *Gedichte* of Walter von der Vogelweide. Lectures upon the Minnesingers. Essays. One hour. First Term. Elective for Juniors, Seniors and graduates.

PROFESSOR WILLIAMS AND DR. SCOTT

- 14, *Middle High German. Parzival* of Wolfram von Eschenbach. Lectures and essays. One hour. Second Term. Elective for Juniors, Seniors and graduates.

PROFESSOR WILLIAMS AND DR. SCOTT

- 15, *Middle High German. Tristan und Isolt* of Gottfried von Strassburg, and *Der Arme Heinrich* of Hartmann von Aue. Lectures and essays. One hour. Third Term. Elective for Juniors, Seniors and graduates.

PROFESSOR WILLIAMS AND DR. SCOTT

- 19, 20, 21, *Old High German. Braune's Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch*. One hour. Through the year. Elective for those who have passed in Courses 10, 11, 12.

PROFESSOR WILLIAMS AND DR. SCOTT

- 22, 23, 24, *Gothic. Braune's Gotische Grammatik mit Lesestücken. Heyne's Stamm's Ulfilas. Feist's Grundriss der gotischen Etymologie*. One hour. Through the year. Elective for Seniors and graduates.

PROFESSOR WILLIAMS

- 25, 26, 27, *Old Norse. Noreen's Altisländische und Altnorwegische Grammatik, Jonsson's Eddalieder, and Mogk's Gunnlaugs-saga*. Lectures upon Old Norse Literature. One hour. Through the year. Elective for all persons prepared to pursue the study.

DR. SCOTT

- 28, 29, 30, *Germanic Mythology. Meyer's Germanische Mythologie*. Lectures upon Comparative Mythology. One hour. Through the year. Elective for all persons prepared to pursue the study.

DR. SCOTT

- 31, 32, 33, *Dutch. Valette's Dutch Conversation-Grammar. Etymology and comparative study of the language. Reading from classical and modern authors. Lectures on the Dutch Language and Literature*. One hour. Through the year. Open, subject to consent of Instructor, to all having sufficient knowledge of German.

MR. CROWELL

- 34, 35, 36, *Germanic Grammar*. Lectures upon sounds and forms of the Germanic Languages, comprising the Gothic, Old Norse, Old Saxon, Old Frisian, Old English and Old High German. Wright's Primer of the Gothic Language. One hour. Through the year. Elective for Seniors and graduates.

DR. SCOTT

HONOR COURSES

Sophomore Year. 1, German Reader, Brandt. 2, *Maerchen*, Grimm. 3, *Eigensinn*, Benedix. 4, *Der Zerbrochene Krug*, Zschokke. 5, *Peter Schlemihl*, Chamisso.

Junior Year. 1, *Das Lied von der Glocke*, Schiller. 2, *Der Neffe als Onkel*, Schiller. 3, *Die Jungfrau von Orleans*, Schiller. 4, *Gedichte*, Koerner. 5, *Emilia Galotti*, Lessing.

Senior Year. 1, *Tasso*, Goethe. 2, *Hermann und Dorothea*, Goethe. 3, *Balladen und Romanzen*, Goethe. 4, *Die Leiden des jungen Werthers*, Goethe. 5, Boyesen's *Goethe and Schiller*. 6, Bossert's *Goethe et Schiller*. 7, Lewes's *Life of Goethe*.

XII, ROMANCE LANGUAGES AND LITERATURES

PROFESSOR LANGDON, MESSRS. JOHNSON, CROWELL
AND FOSTER

FRENCH

A, *Elementary Course*. Grammar, composition, and reading of easy selections in modern French. Three hours. The equivalent of the Elementary French required for admission. Required of all Sophomores who offer for admission German instead of French.

MR. JOHNSON AND MR. FOSTER

1, 2, 3, *Modern French*. Novels and plays, translated rapidly by the class, with special study of unusual constructions and idioms. Also, readings by the class without translation. This is essentially a language-course. Three hours. Through the year. Required of all Freshmen.

MR. JOHNSON AND MR. FOSTER

- 4, 5, 6, *Le Romantisme Français*. The Romantic School, especially the masterpieces of Victor Hugo. The life of Hugo. Reaction against the Classicists. Copious readings without translation. Honor Courses in Hugo, Lamartine, de Musset, de Vigny, Ponsard and Saint-Beuve. Three hours. Through the year. Elective for all who have passed in Courses 1, 2, 3.

PROFESSOR LANGDON (This year MR. CROWELL)

- 7, 8, 9, *Le Classicisme Français*. Literature of the Seventeenth Century. The masterpieces of Corneille, Racine, Molière, and La Fontaine read in class. Monthly reports of outside reading, with essays. Two hours. Through the year. Elective for all who have passed in Courses 1, 2, 3, though students are advised to take Courses 4, 5, 6, first.

PROFESSOR LANGDON (This year MR. JOHNSON)

- 13, 14, 15, *Practice in Writing French*. Elementary course. One hour. Through the year. Elective for all who have passed with credit in Courses 1, 2, 3.

MR. JOHNSON

GRADUATE COURSES, OPEN TO SENIORS WITH THE CONSENT
OF THE INSTRUCTOR

- 22, 23, 24, *Practice in Writing and Speaking French*. Advanced Course. One hour. Through the year. Elective only for those who have passed with credit in Courses 13, 14, 15. Not offered in 1893-94.

PROFESSOR LANGDON

- 10, 11, 12, *French Literature of the Nineteenth Century*. Seminary Work. Essays on the literary movement of the century, with wide reading in poetry and prose, from Chateaubriand and Lamartine to Daudet and Coppée. Two hours. Through the year. Elective only for such as have passed with credit in Courses 4, 5, 6, and 7, 8, 9.

MR. JOHNSON

- 28, 29, 30, *French Literature of the Eighteenth Century*. Reading of selections from the principal authors, with themes. One hour. Through the year. Elective like Courses 10, 11, 12.

MR. JOHNSON

- 16, 17, 18, *French Literature of the Sixteenth Century*. Study of the language, literature, and art of the Renaissance period in France. One hour. Through the year. Elective like Courses 10, 11, 12. Not offered in 1893-94.

PROFESSOR LANGDON

- 21, *Old French*. Introduction to the study of Romance Philology and the literature of the Middle Ages in France. Two hours. Third Term. Elective like Courses 10, 11, 12.

MR. JOHNSON

- 25, 26, 27, *Provençal*. Language and Literature. One hour. Through the year. Elective like Courses 10, 11, 12. Not offered in 1893-94.

PROFESSOR LANGDON

ITALIAN

- 1, 2, 3, *Introductory Course*. Grammar, composition and reading of modern stories and plays. Three hours. Through the year. Elective after the Freshman year.

MR. JOHNSON

- 4, 5, 6, *Classical Course*. Selections from Petrarch and Boccaccio, with special study of Dante's *Divina Commedia* in the original. Lectures on the Italian Renaissance. Two hours. Through the year. Elective for all who have passed with credit in Courses 1, 2, 3.

PROFESSOR LANGDON (This year MR. JOHNSON)

- 7, 8, 9, *Dante in English*. Lectures on the *Divina Commedia*, based upon Professor Norton's translation, intended for literary students who cannot read the Italian language. One hour. Through the year. Elective for Juniors and Seniors. Not offered in 1893-94.

PROFESSOR LANGDON

SPANISH

- 1, 2, 3, *Introductory Course*. Grammar, composition and reading of modern stories and plays. Three hours. Through the year. Elective after the Freshman year.

MR. JOHNSON

- 4, 5, 6, *Classical Course*. Selections from Calderon and Lope de Vega, with special study of Cervantes's *Don Quixote*. Two hours. Through the year. Elective for all who have passed with credit in Courses 1, 2, 3. Not offered in 1893-94.

PROFESSOR LANGDON

XIII, PURE MATHEMATICS

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MR. ALGER AND MR. BURNHAM

- 1, *Geometry, Solid and Spherical*. Wells's Elements of Geometry, with original propositions. Five hours. First Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MR. ALGER AND MR. BURNHAM

- 2, *Trigonometry, Plane and Spherical*. Well's Trigonometries. Five hours. Second Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MR. ALGER AND MR. BURNHAM

- 3, *Algebra*. Wells's Smith's Algebra. Five hours. Third Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MR. ALGER AND MR. BURNHAM

- 4, *Spherical Trigonometry*. One hour. First Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

- 5, *Algebra*. Hall and Knight's Algebra. One hour. First Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

- 6, *Algebra*. Hall and Knight's *Algebra*. A continuation of Course 5. Two hours. Second Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

- 7, *Algebra*. Hall and Knight's *Algebra*. A continuation of Course 6. Two hours. Third Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

- 8, *Theory of Equations and Determinants*. Three hours. Third Term. Elective for those who have passed in Course 3 or Courses 5, 6, and 7.

DR. MANNING

- 9, *Analytic Geometry*. Bowser's *Analytic Geometry*. Three hours. First Term. Elective for those who have passed in Courses 1, 2, and 3. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer.

PROFESSOR DAVIS

- 10, *Analytic Geometry*. Bowser's *Analytic Geometry*. Three hours. Second Term. Elective for those who have passed in Course 9. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer.

PROFESSOR DAVIS

- 11, *Modern Methods in Analytic Geometry*. Lectures. Three hours. Third Term. Elective for those who have passed in Course 10.

DR. MANNING

- 12, *Differential Calculus*. Rice and Johnson's *Differential Calculus*. Three hours. Third Term. Elective for those who have passed in Courses 9 and 10. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer.

PROFESSOR DAVIS

- 13, *Integral Calculus*. Johnson's *Integral Calculus*. Three hours. First Term. Elective for those who have passed in Course 12. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

- 14, *Applications of the Calculus.* Rice and Johnson's Differential Calculus and Johnson's Integral Calculus. Three hours. Second Term. Elective for those who have passed in Courses 12 and 13. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

- 15, *Differential Equations.* Johnson's Differential Equations. Three hours. First Term. Elective for those who have passed in Courses 12 and 13.

DR. MANNING

- 16, *Differential Equations.* Johnson's Differential Equations. Continuation of Course 15. Three hours. Second Term. Elective for those who have passed in Course 15.

DR. MANNING

- 17, *Theory of Functions.* Integrals, and Functions defined by Integrals. Introduction to Elliptic Functions, using Weierstrass's notation. One hour. Through the year. Elective for graduates. Subjects in 1894-95, Algebraic Functions, Riemann Surfaces, and Abelian Functions.

- 18, 19, 20, *Modern Algebra, Higher Plane Curves, Surfaces.* Salmon, Clebsch, and Darboux. Three hours. Through the year. Elective for graduates, and for candidates for the degree of Bachelor of Science who have passed in Courses 15 and 16.

- 21, 22, 23, *Theory of Functions.* Series, Definite Integrals, Curvilinear Integrals, Functions of a Complex Variable. Introduction to Elliptic Functions. Authors: Picard, Hermite, and Jordan. Three hours. Through the year. Elective for graduates, and for candidates for the degree of Bachelor of Science, who have passed in Courses 15 and 16. Offered in 1894-95.

Courses 18, 19, 20, alternate with Courses 21, 22, 23, each being offered every other year.

HONOR COURSES

Supplementary Courses are arranged to accompany all the mathematical courses. These include:

Chauvenet's Geometry, the exercises in Solid Geometry, and the Appendix in Modern Geometry.

Rice and Johnson's Calculus, unabridged edition.

By those who have completed the Calculus, Course 17 may be taken as an Honor Course.

XIV, APPLIED MATHEMATICS

PROFESSORS CLARKE, RANDALL AND MOUNT, MESSRS. BROWNELL
AND BURNHAM

MECHANICS

PROFESSOR CLARKE

- 1, 2, *Elementary Course*. Three hours. First and Second Terms respectively. Elective for students who have passed in Pure Mathematics 1, 2, and 3.
- 3, 4, 6, *Mechanics of Engineering: Mechanics of Solids*. Three hours. Through the year. Elective for students who have passed in Pure Mathematics 9, 10, and 12.
- 7, 8, *Mechanics of Engineering: Mechanics of Fluids*. Three hours. Through the year. Elective for students who have passed in Courses 3, 4, 6.
- 5, *Theory of Structure and Graphical Analysis of Strains*. Three hours. Third Term. Elective for students who have passed in Courses 1 and 2. The natural continuation of Course 2, but of importance to the more advanced Engineering and Scientific students.

DRAWING

PROFESSOR RANDALL AND MR. BURNHAM

- 1, *Elementary Mechanical Drawing*. Nature, care, and use of drawing instruments. Elements of orthographic and isometric projection. Four hours. First Term. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy.

PROFESSOR RANDALL

- 16, *Elementary Mechanical Drawing*. Similar to Course 1. Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

PROFESSOR RANDALL

- 2, 3, 4, *Freehand Drawing*. Practical orthographic projection, involving straight and curve line drawing. Principles of shades, shadows, and perspective. Wholly from the use of models. One hour. Through the year. Elective for all students.

PROFESSOR RANDALL AND MR. BURNHAM

- 5, 6, *Descriptive Geometry*. Church's Descriptive Geometry. Theory of orthographic and scenographic projection. Discussion and proof of theoretical and practical problems. Recitations and drawing. Four hours. Second and Third Terms respectively. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy and have passed in Course 1.

PROFESSOR RANDALL

- 17, 18, *Descriptive Geometry*. Similar to Courses 5 and 6. Three hours. Second and Third Terms respectively. Elective for Sophomores, Juniors and Seniors who have passed in Course 1 or 16.

PROFESSOR RANDALL

- 7, *Shades, Shadows and Perspective*. Based upon Descriptive Geometry. Lectures and Drawing. Three hours. First Term. Elective for those who have passed in Courses 5 and 6, or 17 and 18.

PROFESSOR RANDALL

- 8, *Elementary Machine Drawing*. Sketches, detailed and assembly Drawings of simple machines. Three hours. Second Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Courses 5 and 6, or 17 and 18.

PROFESSOR RANDALL

- 9, *Gearing*. Nature of higher plane curves and their application in the formation of gear teeth. Lectures and drawing. Three hours. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Courses 5 and 6, or 17 and 18.

MR. BURNHAM

- 10, 11, *Advanced Machine Drawing*. Sketches, detail and assembly Drawings of complicated Machines. Three hours. First and Second Terms respectively. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Courses 8 and 9.

MR. BURNHAM

- 12, *Elements of Machine Design*. Three hours. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Courses 10 and 11.

MR. BURNHAM

- 13, 14, *Architectural Drawing*. Continuation of Course 7. Plans, elevations, and perspective of buildings. Three hours. Second and Third Terms respectively. Elective for those who have passed in Course 7.

PROFESSOR RANDALL

- 15, *Constructive Geometry*. Discussion and Proof of original methods of solving complicated geometrical problems. Lectures and Drawing. Three hours. First Term. Elective for those who have passed in Course 1 or 16.

PROFESSOR RANDALL

Honor Courses are arranged in connection with Drawing 1, 5, 6; Drawing 16, 17, 18; Drawing 7, 8, 9; Drawing 10, 11, 12; and Drawing 7, 13, 14.

CIVIL ENGINEERING*

MR. BROWNELL

- 1, 2, 3, *Surveying*. Elementary Course. Johnson's Theory and Practice of Surveying. Field-work, recitations, and plotting. Use of Compass, Level, and Transit. Adjustments of instruments. Topography with Hand-level, and by Stadia. Text-book work. Three hours. Through the year. Elective for those who have passed in Mathematics 1, 2 and 3, and Drawing 1 or 16.
- 4, *Topographical Drawing*. Drawing finished plates. Standard: United States Coast and Geodetic Survey. Three hours. Third Term. Elective for those who have passed in Courses 1 and 2.

* All the courses under this heading are required of candidates for the degree of Civil Engineer.

- 5, 6, 7, *Railroads and Highways*. Searles's Field Engineering. Field-work, recitations, and plotting. Three hours. Through the year. Elective for those who have passed in Courses 1, 2, and 3.
- 8, *Advanced Surveying*. Advanced topographical work with Transit and Stadia, and with Plane Table. Reconnaissance with Barometer. Precise base-line measurements with steel tape. Three hours. Third Term. Elective for those who have passed in Courses 1, 2, and 3.
- 9, *Hydrographic Surveying*. Use of Sextant. Actual work in locating soundings by transit and by sextant angles. Plotting soundings. Three hours. First Term. Elective for those who have passed in Courses 1, 2, and 3.
- 10, 11, *Hydraulics*. Merriman's Treatise on Hydraulics. Three hours. Second and Third Terms respectively. Elective for those who have taken Mathematics 1, 2, 3, 9, 10, 12, and 13; and Mechanics 1 and 2, or 3 and 4, or Physics 1.
- 12, 13, 14, *Structures*. Calculation of Stresses in Framed Structures, by Analytical methods and by Graphical Statics. Design of Wooden and I-beam bridges, a Plate Girder, and a Truss-bridge. Six, six and three hours. First, Second, and Third Terms respectively. Requirements the same as for Courses 10, 11.
- 15, *Masonry*. Baker's Treatise on Masonry Construction. Design of Arches, Retaining Walls and Masonry Dams. Three hours. Third Term. Requirements the same as for Courses 10, 11.
- 16, *Geodesy*. Study of the figure of the earth; with some special problems in Geodesy. One hour. Third Term. Elective for those who have passed in Courses 1, 2, and 3.

MECHANICAL ENGINEERING

PROFESSORS CLARKE, RANDALL, AND MOUNT, AND MR. BURNHAM

- 1, *Kinematics*. Goodeve's Elements of Mechanism. Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

MR. BURNHAM

- 2, *Shopwork*. Three hours. Required of candidates for the degree of Mechanical Engineer during the Second and Third Terms of the Sophomore year, First Term of the Junior Year and First and Second Terms of the Senior Year. Elective during two terms for any other Sophomores, Juniors or Seniors.

- 3, *Materials of Engineering*.* Thurston's Materials of Engineering. Three hours. First Term. Lectures and recitations. Elective for Juniors and Seniors.
- 4, *Thermo-dynamics*.* Three hours. Second Term. Elective for those who have who have passed in Mathematics 12 and 13.
- 5, *Steam Engines and Boilers*.* Three hours. Third Term. Elective for those who have passed in Course 4.
- 6, *Laboratory Methods*.* Two hours. Third Term. Lectures.

For courses in Elementary Machine Drawing, Gearing, Advanced Machine Drawing, and Elements of Machine Design, see Drawing 8, 9, 10, 11, and 12 on pages 82 and 83.

XV, CHEMISTRY

PROFESSOR APPLETON, MESSRS. CALDER, SAUNDERS AND SMITH

- 1, *Descriptive Chemistry*. Non-metals. Three hours. First Term. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER AND SMITH

- 2, *Descriptive Chemistry*. Metals. Continuation of Course 1. Three hours. Second Term. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER AND SMITH

- 3, *Descriptive Chemistry*. Carbon compounds. Continuation of Course 2. Three hours. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER AND SMITH

- 4, *Qualitative Analysis*. Three hours (six hours' attendance). First Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

- 5, *Qualitative Analysis continued and Quantitative Analysis begun*. Three hours (six hours' attendance). Second Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

- 6, *Quantitative Analysis continued*. Three hours (six hours' attendance). Third Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

* These Courses not offered in 1893-94.

Students who have passed in Courses 1-6 may elect any of the following:

- 7, 8, 9, *Advanced Quantitative Analysis*. Six hours (twelve hours' attendance). Through the year.

PROFESSOR APPLETON AND MR. SAUNDERS

- 10, 11, 12, *Organic Chemistry*. Six hours (twelve hours' attendance). Through the year.

PROFESSOR APPLETON AND MR. SAUNDERS

- 13, 14, *Assaying*. Six hours (twelve hours' attendance), Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SMITH

- 15, 16, *Medical Chemistry*. Six hours (twelve hours' attendance). Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

- 17, 18, *Agricultural Chemistry*. Six hours (twelve hours' attendance). Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

- 20, *The Scouring and Dyeing of Wool*. Six hours (twelve hours' attendance.) Third Term.

PROFESSOR APPLETON AND MR. SMITH

HONOR COURSES

Students who work for honors in Chemistry are expected to make some original investigations, approved by the Professor in charge. They must also from time to time furnish written reports of their progress in this work.

XVI, PHYSICS

PROFESSORS BLAKE AND MOUNT, AND MR. PALMER

- 1, 2, *General Course*. Lectures, illustrated by experiments, with occasional written examinations. Three hours. First Term, Mechanics and Acoustics. Second Term, Optics, Heat and Electricity. Elective for Sophomores and Juniors.

- 12, *Advanced Course.* Study of Physics with a text-book and with special attention to the mathematical presentation of the subject. Three hours. Third Term. Elective for Juniors and Seniors who have passed in Courses 1, 2, or their equivalent.

PROFESSOR BLAKE

- 3, *Elementary Course in Electricity and its Applications.* Thompson's Elementary Lessons in Electricity and Magnetism. Three hours (recitations two, laboratory practice one, the latter requiring two hours of attendance). Third Term. Elective for Sophomores and Juniors who have passed in Physics 1 and 2.

PROFESSOR BLAKE

- 6, 7, *Workshop Course in Mechanical Processes.* See Mechanical Engineering 2.

- 8, *Course in Photography.* Photographic methods and processes, with their applications. One hour. Third Term. Elective for all students duly prepared.

PROFESSORS BLAKE AND MOUNT

For the Courses below, familiarity with Peck's Elementary Mechanics, or an equivalent, is essential, and also a knowledge of the principal facts and theories of sound, light, heat, and electricity.

- 9, 10, *Physical Laboratory.* General Course. Experimental work in Mechanics, Sound, Light, Heat, and Electricity, with mathematical discussion of results obtained and written reports of the work. Three hours (six hours of attendance in laboratory). First Term, Mechanics and Sound; Second Term, Light, Heat, and Electricity. Elective for Juniors and Seniors who have passed in Courses 1, 2, and 3.

PROFESSOR BLAKE AND MR. PALMER

- 11, *Special Course in Electricity.* Text-book and laboratory practice. Three hours (two in class-room and one in laboratory, the latter requiring two hours of attendance). Third Term. Elective for Juniors and Seniors who have passed in Course 3.

PROFESSORS BLAKE AND MOUNT

- 13, *Elementary Dynamics*. Three hours. First Term. Elective for those who have passed in Physics 1, 2, 3, 9, 10; and in Pure Mathematics 1-14, or their equivalent.

MR. PALMER

- 14, *Thermo-dynamics*. Three hours. Second Term. Elective for those who have passed in Physics 1, 2, 3, 9, 10, 13, and in Pure Mathematics 1-14, or their equivalent.

MR. PALMER

HONORS IN PHYSICS

The entire course in Physics, which must be pursued with exceptional success to entitle the student to special honors, is as follows:

Pure Mathematics, 9, 10, 12; 13, 14, 15. Mechanics, 1, 2; Physics proper, 1, 2; 3; 12; 6, 7, 13, 14.

XVII, ASTRONOMY

PROFESSOR UPTON

- 1, *General Astronomy*. Young's General Astronomy, with lectures. Three hours. First Term. Elective for Juniors and Seniors.
- 2, *General Astronomy continued*. Three hours. Second Term. Elective for those who have passed in Course 1.
- 3, *Practical Astronomy*. The application of Astronomy in Navigation and Geodesy. Theory and use of instruments. Three hours. Second Term. Elective for those who have passed in Course 1.
- 4, *Practical Astronomy continued*. Three hours. Third Term. Elective for those who have passed in Course 3.
- 7, *Scientific Method*. Lectures upon the philosophy of the Inductive and Deductive Methods of investigation, especially as used in the physical sciences. Three hours. Third Term. Elective for Juniors, Seniors and graduates. Not offered in 1894-95.
- 8, 9, 10, *Advanced Practical Astronomy*. Further study of the application of Astronomy to Geodesy. Method of Least Squares. Doolittle's Practical Astronomy, with use of instruments. Three hours. Through the year. Elective only for those who have shown special aptitude in Courses 3 and 4.

METEOROLOGY

- 1, *General Course.* Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1893-94.

XVIII, ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

PROFESSOR PACKARD

ZOÖLOGY

- 1, *General Course.* Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR PACKARD

GEOLOGY

- 1, 2, *General Course.* Three hours. First and Second Terms respectively. Elective for Seniors.

PROFESSOR PACKARD

ANTHROPOLOGY

- 1, *General Course.* Three hours. Third Term. Elective for Seniors and graduates.

PROFESSOR PACKARD

XIX, COMPARATIVE ANATOMY

PROFESSORS BUMPUS AND FIELD, AND MR. GORHAM

- 1, *Vertebrate Anatomy.* Four hours. Third Term. Elective for Sophomores.

MR. GORHAM

- 2, *Invertebrate Anatomy.* Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR BUMPUS (This year PROFESSOR FIELD)

- 3, *Comparative Anatomy of the Vertebrates.* Three hours. First Term. Elective for those who have passed in Course 1, Course 2, or Zoölogy.

PROFESSOR BUMPUS (This year PROFESSOR FIELD)

- 4, *Comparative Anatomy of the Vertebrates.* Three hours. Second Term. Elective for those who have passed in Course 3.

PROFESSOR BUMPUS (This year PROFESSOR FIELD)

- 5, *Cellular Biology*, Three hours. Third Term. Elective for those who have passed in Courses 3 and 4.

PROFESSOR FIELD

- 6, 7, 8, *Bacteriology*. One hour. Through the year. Elective only for advanced students in Biology.

PROFESSOR FIELD

- 9, 10, 11, *General Biology*. Three hours (six hours attendance). Through the year. Elective for Sophomores. Offered in 1894-95.

PROFESSOR FIELD

XX, PHYSIOLOGY

PROFESSOR CHAPIN

- 1, *Course in Hygiene*. One hour. Third Term. Required of Freshmen.
- *2, 3, *Elementary Course in Physiology*. Three hours. First and Second Terms respectively. Elective for Juniors.

XXI, BOTANY

PROFESSOR BAILEY AND MR. OSTERHOUT

- 1, 2, 3, *Vegetable Morphology*. Three hours. Through the year. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores.

PROFESSOR BAILEY AND MR. OSTERHOUT

- 4, 5, 6, *Histology and Embryology of Phaenogams*. Three hours. Through the year. Elective for those who have passed in Courses 1, 2, and 3.

PROFESSOR BAILEY AND MR. OSTERHOUT

- 7, 8, *Structure and Development of Cryptogams*. Three hours. First and Second Terms respectively. Elective for those who have passed in Courses 1, 2, and 3.

MR. OSTERHOUT

* Those who elect this course the first term are expected to pursue it the second as well.

XXII, AGRICULTURE

PROFESSORS JENKS AND PACKARD

- 1, *Agricultural Zoölogy*. Three hours. First Term. Required of all students upon state scholarships.

XXIII, MILITARY SCIENCE AND TACTICS

LIEUTENANT PARDEE

- 1, *Practical Exercises*. Infantry and artillery drill, small arms, target practice. Three hours, First and Third Terms. One hour, Second Term. Required of first and second year men. Elective for Juniors and Seniors.
- 2, *Systematic and Progressive Instruction*. Lectures in Drill Regulations, Preparation of Army Reports and Returns, Organization and Administration of the United States Army, and the Principles of Strategy, Grand Tactics, and the Art of War. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

Courses Suggested as Desirable for Students Preparing for Professions

Since the number of elective studies has become so great, students for the Ministry, the Law, Medicine, or Journalism are not infrequently at a loss to know which branches they ought to choose. The following groups are meant to aid such, indicating the studies which a student with either of the above-named professions in view would find it to his advantage to elect, unless directed otherwise by some special considerations. Competent students who complete these Courses with special thoroughness are sometimes able to save a year in professional schools. Besides serving candidates for degrees, these lists will afford direction to any students for the professions who may be obliged to limit their collegiate preparation to one, two, or three years. No degrees will be awarded at the completion of such shorter courses, but Certificates of Attainment will be furnished when desired.

I, Suggested Course Preparatory to the Study of Theology

FIRST YEAR

The regular Freshman Course for the Degree of Bachelor of Arts.
See page 45.

SECOND YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 2, Elocution 1, German 1, Greek 4, English 7, Botany 1.	Rhetoric 3, Elocution 2, German 2, Greek 5, English 8, Botany 2.	Rhetoric 4, Elocution 3, German 3, Greek 6, English 9, Botany 3.

For Greek, Latin or French may be substituted. Chemistry may also be taken here, and followed in the third year by Astronomy. Those studying no foreign language may well begin English now, continuing it through two years. A course in the Semitic tongues may be begun at this point, to continue one, two, or three years, displacing the studies least to the pupil's taste. Other Courses in English may, for certain pupils, be preferable to 7, 8, 9.

THIRD YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 2, English 4, Essays and Orations, Oriental History 1, Political Economy 1, History 1.	Philosophy 3, English 5, Essays and Orations, Oriental History 2, Political Economy 2, History 2.	Philosophy 19, English 6, Essays and Orations, Oriental History 3, Political Economy 3, History 3.

FOURTH YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 5 and 8, History 7, Hebrew 1, Social Science 1	Philosophy 6 and 16, History 8, Hebrew 2, Social Science 2.	Philosophy 15 and 7, History 9, Hebrew 3, Social Science 3.

In this fourth year, instead of Philosophy 16 and 7, History may be continued, or other Courses in Philosophy be taken. Also Courses in Philosophy, in History, or in Literature may take the place of Hebrew or of Social Science.

II, Suggested Course Preparatory to the Study of Law

FIRST YEAR

The regular Freshman Course for the degree of Bachelor of Arts. See page 45.

SECOND YEAR

Required :

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 2, Elocution 1, German 1.	Rhetoric 3, Elocution 2, German 2.	Rhetoric 4, Elocution 3, German 3.

Elective, three courses, two from the first and one from the second of the following groups :

GROUP I

Greek 4, Latin 4, French 4, English 7.	Greek 5, Latin 5, French 5, English 8.	Greek 6, Latin 6, French 6, English 9.
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GROUP 2

Mathematics 9,
Chemistry 1,
Physics 1.

Mathematics 10,
Chemistry 2,
Physics 2.

Mathematics 11 or 12,
Chemistry 3,
Physics 3.

THIRD YEAR

First Term

Philosophy 2,
Essays and Orations,
History 1,
Political Economy 1,
Political Science 1,
Elementary Law.

Second Term

Philosophy 3,
Essays and Orations,
History 2,
Political Economy 2,
Political Science 2,
Elementary Law.

Third Term

Philosophy 19,
Essays and Orations,
History 3,
Political Economy 3,
Political Science 3,
Elementary Law.

FOURTH YEAR

First Term

Philosophy, 1 course,
Social Science 1,
Advanced Political
Economy,
History 4,
Elementary Law.

Second Term

Philosophy, 1 course,
Social Science 2,
Advanced Political
Economy,
History 5,
Elementary Law.

Third Term

Philosophy, 1 course,
Social Science 3,
Advanced Political
Economy,
History 6,
Elementary Law.

III, Suggested Course Preparatory to the Study of Medicine or Biological Science

FIRST YEAR

First Term

Mathematics 1,
French 1 or German 4,
Drawing 2,
General Lecture,
Botany 1,
Rhetoric 2,
Elocution 1.

Second Term

Mathematics 2,
French 2 or German 5,
Drawing 3,
Rhetoric 1,
Botany 2,
Rhetoric 3,
Elocution 2.

Third Term

Mathematics 3
French 3 or German 6,
Drawing 4,
Physiology 1,
Botany 3,
Rhetoric 4,
Elocution 3.

Candidates for the degree of A. B. will take during the Freshman year the regular course scheduled on page 45.

SECOND YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
German 1, French 4, Rhetoric 5, Botany 4, Physics 1, Chemistry 1.	German 2, French 5, Rhetoric 6, Botany 5, Physics 2, Chemistry 2.	German 3, French 6, Botany 6 or Biology 1, Physics 3, Chemistry 3.

Candidates for the degree of A. B. will during the first and second terms of the Sophomore year take Botany 1 and 2 in place of Botany 4 and 5 above mentioned. Through the same year Rhetoric and Elocution take the place of French.

THIRD YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 2, Essays and Orations, History 1, Physiology 2, Chemistry 4, Political or Social Science 1.	Philosophy 3, Essays and Orations, History 2, Physiology 3, Chemistry 5, Zoölogy 1.	Philosophy 19, Essays and Orations, History 3, Philosophy 4, Chemistry 6, Comparative Anat- omy 1.

FOURTH YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy, 1 course, Comparative Anat- omy 2, Geology 1, Chemistry 10.	Philosophy, 1 course, Comparative Anat- omy 3, Geology 2, Chemistry 15.	Philosophy, 1 course, Comparative Anat- omy 4, Anthropology, Chemistry 16.

IV, Suggested Course Preparatory to the Pursuit of Journalism

FIRST YEAR

The regular Freshman Course for the degree of Bachelor of Arts.

SECOND YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 2, Elocution 1, English 27, German 1, Physics 1, Chemistry 1, Drawing 2.	Rhetoric 3, Elocution 2, English 28, German 2, Physics 2, Chemistry 2, Drawing 3.	Rhetoric 4, Elocution 3, English 29, German 3, Physics 8, Philosophy 1, Drawing 4.

THIRD YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 10, Rhetoric 9, English 27, Philosophy 2, History 1, Political Economy 1, Elementary Law.	Rhetoric 11, Rhetoric 9, English 10, Philosophy 3, History 2, Political Economy 2, Elementary Law.	Rhetoric 12, Rhetoric 9, English 11, Philosophy 19, History 3, Political Economy 3, Elementary Law.

FOURTH YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 13, Rhetoric 5, Philosophy, 1 course, Elementary Law, History 7, Political Science 1, Social Science 1.	Rhetoric 14, Rhetoric 6, Philosophy, 1 course, Elementary Law, History 8, Political Science 2, Social Science 2.	Rhetoric 15, Rhetoric 7, Philosophy, 1 course, Elementary Law, History 9, Political Science 3, Social Science 3.

To proficiency in French and German, knowledge of the Italian and Scandinavian languages might be added with advantage.

Topics relating to practical journalism are discussed from time to time before the students by men of large experience in the profession.

INSTRUCTION FOR GRADUATE STUDENTS

Brown University offers excellent facilities for graduate study, to which its own graduates and those of other colleges are alike welcome. Not only are the libraries, the laboratories of the University, its seminaries, its observatory, and its various museums, all of a nature greatly to assist advanced study, but the industries of the City of Providence offer numerous and rare opportunities for special scientific investigations.

A Graduate Students' Association, composed of the students carrying on advanced courses at the University, holds monthly meetings during the year, at which papers embodying the results of special investigations are read. Addresses are also made by members of the Faculty and others on topics connected with graduate work. See further, under "Philosophy," for Philosophical Club, and under "Comparative Anatomy," for Biological Club.

The following courses of instruction are at present available for graduate students, those marked with a star being intended primarily for such students, the rest meant also for higher undergraduate work. Candidates for graduate degrees and other advanced pupils will find all of these courses, in both methods and subjects, exceedingly helpful. The numbers of the courses refer to the general conspectus, pages 55 to 91, inclusive.

In Philosophy

All the elective courses in Philosophy are suitable for graduate students who have not taken them.

In the Classics

Greek 13, 14, 15. Epic and Lyric Poetry. Homer, Hesiod and Pindar, with selections from the Anthology. Three times a week. Through the year.

Greek 16, 17, 18. The Dramatists. Aeschylus and Sophocles, with selected plays of Euripides and Aristophanes. Three times a week. Through the academic year 1894-95.

Latin 7, 8, 9. History and Development of Roman Poetry. Three times a week. Through the year.

Latin 11, 12, 13. History and Development of Latin Prose. Three times a week. Through the academic year 1894-95.

Roman Antiquities. Weekly. Through the year.

Fine Arts 1, 2, 3. Classical Archaeology. Three times a week.
Through the year.

Fine Arts 4, 5, 6, History of Art. Three times a week. Through the
year.

Fine Arts 7,* 8,* 9.* Special Courses.

In the Semitic Languages

Hebrew 1, 2, 3. Three times a week. Through the year.

Hebrew 4, 5, 6. Critical Study of Isaiah. Three times a week.
Through the year.

Hebrew 7. Syntax and Reading. Three times a week. First Term.

Aramaic 1, 2. Three times a week. Second and Third Terms.

Arabic 1, 2, 3. Three times a week. Through the year.

Assyrian 1, 2, 3. Three times a week. Through the year.

In Rhetoric and English

Rhetoric 5, 6, 7. Historical Course. Weekly. Through the year.

Rhetoric 10, 11, 12. Advanced Composition. Theme Writing.
Weekly. Through the year.

Rhetoric 13, 14, 15. Advanced Composition. Thesis Writing.
Weekly. Through the year.

English 4, 5, 6. Shakspere and the English Drama. Three times a
week. Through the year.

English 10, 11, Elementary Anglo-Saxon. Three times a week.
Second and Third Terms.

English 12, 13, 14. Anglo-Saxon Poetry. Béowulf and the Elene.
Three times a week. Through the year.

English 24, 25, 26. Middle English. Three times a week. Through
the year.

English 18, 19. The Novel. Three hours. First and Second Terms.

English 16, 17. American Literature. Three hours. Second and
Third Terms.

English 20,* 21.* 22.* Seminary. Two hours. Weekly. Through the year.

English 31, 32, 33. Eighteenth Century Literature. Three times a week. Through the year.

In History, Political and Social Science, and Political Economy

History 7. 8. 9. Constitutional and Political History of the United States. Three times a week. Through the year.

History 10.* Principles of Historical Criticism. Weekly. Through the year.

History 12* Practical Exercises in Historical Criticism. One hour. Third Term.

History 13.* History of Historical Writing in Modern Europe. Weekly. During First and Second Terms.

History 3. History of the Reformation. Three times a week. Third Term.

History 11. History of the Renaissance. Three times a week. Third Term.

Political Science 5.* Development of Political Theory. Three times a week. First Term.

Political Science 6.* Roman Law. Three times a week. Second Term.

Social Science 4.* Social Philosophy. Three times a week. Third Term.

*Seminary of History, Political Economy, and Political Science.** Once in two weeks. Through the year.

Political Economy 4. History of Economic Thought. Three times a week. Second Term.

Political Economy 6. Money and Banking. Three hours. Second Term.

Political Economy 5. Public Finance. Three times a week. Third Term.

Oriental History 1, 2, 3. The Ancient East, Islâm, The Crusades. Three times a week. Through the year.

In Modern Languages

- German* 4-9, inclusive. Lessing, Schiller, Goethe. Six times a week. Through the year.
- German* 16,* 17,* 18.* German Literature. Three times a week. Through the year.
- German* 10,* 11,* 12.* Middle High German. Weekly. Through the year.
- German* 13,* 14,* 15.* Middle High German, Advanced. Weekly. Through the year.
- German* 19,* 20,* 21.* Old High German. Weekly. Through the year.
- German* 22,* 23,* 24.* Gothic. Weekly. Through the year.
- German* 25,* 26,* 27.* Old Norse. Weekly. Through the year.
- German* 28,* 29,* 30.* Germanic Mythology. Weekly. Through the year.
- German* 31,* 32,* 33.* Dutch. Weekly. Through the year.
- German* 34,* 35,* 36.* Germanic Grammar. Weekly. Through the year.
- French* 22,* 23,* 24.* Advanced Course in writing and speaking French. One hour. Through the year.
- French* 10,* 11,* 12.* Literature of the Nineteenth Century. Two hours weekly. Through the year.
- French* 28,* 29,* 30.* Literature of the Eighteenth Century. Weekly. Through the year.
- French* 16,* 17,* 18.* Literature of the Sixteenth Century. Weekly. Through the year.
- French* 21.* Old French. Two hours. Third Term.
- French* 25,* 26,* 27.* Provençal. Weekly. Through the year.
- Italian* 4,* 5,* 6.* Classical Course. Dante, Petrarch, Boccaccio. Three times a week. Through the year.
- Italian* 7,* 8,* 9.* Lectures in English on Dante. Weekly. Through the year.
- Spanish* 4,* 5,* 6.* Classical Course. Two hours. Through the year.

In Mathematics

- Pure Mathematics* 11. Modern Methods in Analytic Geometry. Three times a week. Third Term.

Pure Mathematics 8. Determinants. Three times a week. Third Term.

Pure Mathematics 14. Applications of the Calculus. Three times a week. Second Term.

Pure Mathematics 15 and 16. Differential Equations. Three times a week. First and Second Terms.

Pure Mathematics 17.* Theory of Functions. One hour. Through the year.

Pure Mathematics 18,* 19,* 20.* Modern Algebra, Higher Plane Curves, Surfaces. Three hours. Given in 1893-94.

Pure Mathematics 21,* 22,* 23.* Theory of Functions. Three hours. Given in 1894-95.

Drawing 9. Gearing. Three hours. Third Term.

Drawing 10, 11. Advanced Machine Drawing. Three hours. First and Second Terms.

Drawing 15. Constructive Geometry. Three hours. First Term.

Surveying. Courses 9-16 inclusive.

In Chemistry

None of the Courses in Chemistry are exclusively for graduates; but of the advanced Courses, Nos. 4-18, inclusive, will be found appropriate for graduates who have not pursued them. Graduate students are afforded all practicable facilities for carrying on, in the Chemical Laboratory, investigations approved by the Professor in charge. Graduate degrees in Chemistry will be conferred only after a large amount of laboratory work.

In Physics and Astronomy

Physics 8. Photography. Weekly. Third Term.

Physics 9, 10. Physical Laboratory Course. Individual Experiments. Six hours in laboratory weekly. First and Second Terms.

Physics 11. Special Course in Electricity. Three times a week. Third Term.

Physics 12. Advanced Course. Three hours. Third Term.

Physics 13. Elementary Dynamics. Three hours. First Term.

Physics 14. Thermo-dynamics. Three hours. Second Term.

Astronomy. For graduates who wish to pursue advanced courses in this branch, Courses 8, 9, and 10 are available, and additional work is assigned in theoretical and practical Astronomy. Such students may also assist in the regular observations carried on at the Observatory.

In Comparative Anatomy and Anthropology

Comparative Anatomy 2. Invertebrate Anatomy.

Comparative Anatomy 3 and 4. Comparative Anatomy of Vertebrates.
Three times a week. First and Second Terms.

Comparative Anatomy 5. Cellular Biology. Three times a week.
Third Term.

Comparative Anatomy 6, 7, 8. Bacteriology. Weekly. Through the year.

Comparative Anatomy 9, 10. General Biology. Three times a week.
First and Second Terms.

Anthropology 1. General Course. Three times a week. Third Term.

In Botany

Botany 4, 5, 6. Histology and Embryology of Phaenogams. Three times a week. Through the year.

Botany 7, 8. Structure and Development of Cryptogams. Three times a week. First and Second Terms.

GENERAL DESCRIPTION

OF THE

INSTRUCTION

IN THE SEVERAL DEPARTMENTS

I, PHILOSOPHY

The primary aim, both in the required and in the elective studies of this department, is to strengthen and discipline the mind of the pupil and, so far as possible, to render him a safe, strong, and independent thinker and investigator.

Psychology is taught as an empirical and experimental science. The philosophical problems involved, though necessarily left unsolved, are yet clearly pointed out. Thus the required course not only affords a constant stimulus to introspection, but forms also a valuable transition from the special sciences to philosophy. In the advanced courses the student is introduced to the chief lines of psychological experiment, and is given an opportunity to study further the most interesting problems and to pursue original investigations in the laboratory.

The courses in Logic are intended to exhibit the principles of correct thought, whether of the ordinary or of the scientific type. That known as Philosophy 1 will deal more especially with the general laws and forms of logical thought; and Astronomy 7 will be devoted to their application in scientific method. The course in Philosophical Introduction is meant, by awakening reflection on the ultimate problems of life and mind, to prepare the student for the higher courses in pure philosophy.

The treatment of the History of Philosophy is not merely analytic or historical, but synthetic and constructive; the successive philosophical systems are studied in their dialectical development and mutual relations. In addition to the general courses on the history of philosophy, there are special courses for the minute study of individual authors representative of the different periods.

The practical purpose present in all the studies of this department becomes especially pronounced in Ethics, the theoretical course in which is intended to aid the student in mastering the fundamental problems of conduct and character. Special attention is given, in separate courses, to the topics of Practical Ethics and Casuistry now of such peculiar interest to the world.

The instruction in Comparative Religion deals with the principal data touching the religious life and development of mankind. The course constitutes an important branch of general history, besides furnishing a most desirable basis for study in religious philosophy.

In the Course on the Philosophy of Religion, the metaphysical basis of religion is investigated, and an interpretation of the religious and especially the Christian consciousness is attempted.

The Course in Pedagogy deals with the history, theory and practice of organized education. It affords rich discipline of mind, and intending teachers, particularly, will find it invaluable as a preparation for their work.

In the Philosophical Seminary the more difficult problems of Logic, Metaphysics, and Philosophy of Religion are made the subject of informal but specially thorough discussion.

A Philosophical Club, consisting of graduate and Senior students of philosophy in all its branches, has also been formed for the encouragement of the independent discussion of philosophical questions and for the fostering of a more intelligent interest in the subject among the members of the University. The Club meets once a month for the reading of

papers, followed by free discussion. Though the organization is primarily in the hands of the students, the instructors in the philosophical department and other persons interested in philosophy but not members of the University, are usually present to take part in the proceedings.

II, GREEK LITERATURE AND HISTORY

The studies in this Department are prescribed for the Freshman year, and elective for the Sophomore, Junior and Senior years.

The work of the first two years is designed to secure (1) a good linguistic discipline; (2) a general view of Greek literature, brought home by careful study of representative masterpieces in various departments; and (3) as complete a view as possible of the life and genius of the Greeks and their place in the history of civilization. In connection with this work, it is a constant aim to facilitate the acquisition of the language by the utmost possible use of it, as in sight reading, translation at hearing, and conversation on the subject in hand.

These studies are intended to have a certain rounded completeness in themselves, and to be at the same time a sufficient introduction to the advanced courses of the last two years.

These advanced courses contemplate a wider range of reading, and a more liberal study of literature and history in the light of an accumulated knowledge of Greek lands and peoples. Each course will cover, so far as possible, the entire extant works of an author or department of the literature. For example, the classical historians, Herodotus, Thucydides, and Xenophon, and the Attic orators, in two alternating courses, may be taken as traversing the whole field of Greek History and Politics down to the death of Epaminondas, and as bringing out the chief traits of Greek social life in the classical period. Like courses are offered in the Epic, Lyric and Dramatic Poets. Still others will be developed as fast and far as the working force of the Department may suffice, and they

will be so arranged that any student may follow two or more of them during the last two college years. Various short courses, linguistic, literary and archaeological, will be given as auxiliary to these.

A one-hour course in the Greek New Testament is offered this year, and opportunity is also given for the study of the living language and current literature of the Greeks.

For those who are candidates either for the higher degrees or for honors, courses of reading and study are marked out according to the needs of individual cases.

The President's Premiums for excellence in preparatory Greek studies are awarded after a special examination at the beginning of the Freshman year.

The Foster Premium for the highest excellence in the Greek language is awarded after a critical examination toward the close of the Senior year.

III, ROMAN LITERATURE AND HISTORY

The studies in this Department, as in Greek, are prescribed for the Freshman year, and elective for the Sophomore, Junior, and Senior years. The courses of study have been specified in preceding pages, but other authors than those named may be read in different years.

The courses of the Freshman year are based upon prose writers. While grammatical study and literary criticism receive attention, the special aim is to enable the student to acquire facility in reading, and to instruct him in the use of the Latin texts as a means of acquiring a knowledge of the public and private life of the Romans. Special topics are assigned to committees and to individual students for investigation, and lectures are given by the instructors.

The courses which are open to the Sophomores relate to lyric poetry and to satire. The literary side of the study is made prominent. The instructor endeavors to aid the student in appreciating the characteristics of Roman thought and the

literary quality of Roman poetry. A part of the time is occupied with a critical study of the form and structure of the poems, while a part is devoted to rapid reading with a view to comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

The advanced course, open to Juniors and Seniors, relates to the development and history of Roman literature. Poetry and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman Literature. Comparatively little time is occupied with the formal work of recitation. Lectures are given by the instructor on the lives and writings of the authors, and characteristic selections are read and discussed. Topics in literary history and criticism, adapted to individual tastes, are assigned to members of the class for special study and investigation.

The President's Premiums for excellence in preparatory Latin are awarded after a special examination at the beginning of the Freshman year.

The Lucius Lyon Premiums for excellence in the Latin Language and Literature are awarded after a special examination held toward the close of the Senior year.

Classical Seminary

In the interest of high and independent scholarship in the classical departments, a commodious room has been opened in Sayles Memorial Hall for the purposes of a Classical Seminary. It is supplied with an extensive special library purchased with funds generously contributed by friends of the University interested in Classical Studies. The books have been selected with special reference to the needs of advanced students. It is the aim of the departments to make this room with its literary treasures and other appliances an attractive and inspiring place for independent work, where students pursuing special

lines of study and research may find within their reach the needed helps.

The Seminary is primarily intended for graduates and honor students, but it is open also to such members of the elective classes in the departments as are qualified to profit by its advantages.

The room is lighted by electricity and is open throughout the day and evening.

IV, THE FINE ARTS

The courses of instruction in the Fine Arts, open to Seniors and Juniors and to graduate students, are of two kinds, general and special. The general courses are adapted to the acquirements of the average student, and are so arranged as to meet the needs of those who wish merely a brief but comprehensive view of the subject. At the same time they are a preparation for the special courses, for which also some special attainment, particularly in the use of the languages containing technical literature, is an indispensable requirement.

A general course in Classical Archaeology is offered. In this a rapid review of the art of Egypt and of the Orient precedes the study of the earliest Hellenic art. The development of Greek art through its several periods and in its different schools follows, and the course closes with the decadence of art in the Roman period. The text-book, Collignon's *Manual of Greek Archaeology*, is supplemented by lectures and by collateral reading. The plaster casts in the Museum of Classical Archaeology, photographs, engravings, etc., are used to illustrate the subject.

The object of this study is to bring the student near to those quickening and controlling motives in ancient life, especially in the life of the Greek people, which found expression in the forms of Art. The attempt is made to study the most significant specimens, to note the most important facts, and to secure a solid basis for later and more special studies in Archaeology and in the criticism of Art.

A knowledge of Greek, Latin, German, and French is most helpful to those who pursue even the general courses, but is not indispensable.

In the special courses in Classical Archaeology the subject is treated more in detail, and the sources are studied. This involves the reading of the ancient literature on the subject, the works of modern investigators and explorers, and as critical a study of the monuments as the means of illustration at command allow.

A similar method is followed in the later periods. The earlier courses are general, brief, and comprehensive, and preparatory also to the later special courses. They comprise instruction in the history of Early Christian art, Mediaeval art, the art of the Renaissance, and modern art. These special courses may be varied considerably from year to year.

Y, SEMITIC LANGUAGES AND ORIENTAL HISTORY

In the elementary courses in Hebrew, Arabic, and Assyrian, an effort is made to ground the student thoroughly in the principles of the grammar of these several languages, and to enable him to translate easy prose with facility. In Hebrew, for example, after the elements of grammar and the first eight chapters of Genesis have been studied carefully by means of Harper's text-books, easy narrative prose is taken up, to be followed by more difficult selections as the student's grasp of the language improves.

Two advanced courses in Hebrew are offered. In the first of these, which occupies the first term, while special attention is given to the syntax, the student's vocabulary is increased by the reading of selections from the Historical Books and Psalms. The second advanced course, which is given one hour a week through the year, is devoted to the study of the Book of Isaiah. Careful attention is paid not only to the translation of the Hebrew text but to the condition of that text itself, and to some,

at least, of the critical questions which arise in connection with this book

In Oriental History three courses are offered, any one of which may be taken independently of the other two. The first, which runs through the first term, is designed to present a general survey of the ancient Orient, and the endeavor is made to give the student some insight into the great civilizations of the valley of the Nile and of the Tigris and Euphrates. Special attention is paid to the history of the Semites. The geography of Palestine is studied, and photographs of many of its most interesting spots are shown.

In the second term a course on the rise and spread of Islam is offered. The life of Mohammed, the religion which he founded, and the Koran, which is the chief oracle of that religion, are studied. Then follows a general survey of the conquests of the Moslems, till the conflict of East with West in the Crusades.

In the third term the history of the Crusades is studied with special reference to the history of Islâm during the eleventh, twelfth, and thirteenth centuries.

All the courses in this department are open to graduate students, and additional courses are arranged for any students possessing the necessary preparation, who may desire to do advanced work.

VI, RHETORIC AND ORATORY

The aim of the instruction in Rhetoric is to give a thorough and systematic training in the principles and practice of English Composition. The different kinds of composition are set forth in their logical relations to each other; and essays and orations, whose plans are based upon specific, rhetorical methods, are required from students.

In the Freshman year the purpose is to ground students in the principles of rhetorical construction as applied to the Sentence and the Paragraph. Particular attention is also paid

to the formation and analysis of the Plan as a fundamental process in composition.

In the Sophomore year the subject of Style is studied, with reference to the characteristics of prose diction as determined by the subject and occasion. General processes in the discovery and arrangement of material are also considered, including different forms of presenting the same. Narration, description, exposition, argumentation and persuasion are discussed theoretically, and practically applied in essays, six in all during the year, written according to the principles of each method. Readiness of expression is cultivated by means of composition in the class-room, upon themes with which the student is sufficiently familiar to begin a thought-process at once. These paragraphs, as well as the essays mentioned above, are subject to criticism and correction. Reports upon subjects assigned for personal research are from time to time presented in writing. There are also oral discussions of questions of present interest. In addition, the rhetorical analysis of English masterpieces is made a part of the daily recitation. Almost every type of writing is examined in this way, concluding with a study of the Oration as a special and comprehensive literary form, and as preparatory to the rhetorical work of the following year. An Honor Course in the science of Rhetoric is offered to this class.

In the Junior year five orations are required of each student. After correction, revision, and rehearsal before the Instructor in Elocution, they are delivered in the presence of the class.

A course of lectures on the History of Oratory is given during the year, to which members of the Senior and Junior classes are admitted. The periods covered by these lectures may be designated as the Greek, Roman, Patristic, Mediaeval, Reformation, Parliamentary, and Congressional. Occasional oratory is considered under the forms to which it belongs. An Honor Course in Deliberative Oratory is offered to those who attend these lectures.

As supplementary to the above studies a course in the Principles and Practice of Rhetorical Criticism is offered to the members of the Junior and Senior classes, beginning with the first term of 1894-95.

ELOCUTION

The instruction in Elocution for the Sophomores includes lectures on the fundamental principles of speech; breathing, formation of tone, articulation, pronunciation, stress, emphasis, position, gesture, with such drill exercises in vocal development as will assist the student to become an effective speaker. Oral readings and frequent declamations by members of the class afford opportunity for personal criticism and for the correction of individual faults in utterance.

For the Juniors the work of the year consists in the writing, the rehearsal, and the public delivery before the class, of five orations by each member.

The Seniors have especial drill preparatory to Commencement.

VII, ENGLISH LITERATURE AND LANGUAGE

Courses are offered in both language and literature. In the main the two kinds of work are kept apart, the belief being that each can be done more thoroughly by itself.

The elementary course in Anglo-Saxon is intended to serve as an introduction to the more advanced courses in language work and to prepare students to read ordinary Old English prose. In the advanced course in Anglo-Saxon; *Béowulf* and the *Elene* are read, with attention to both language and antiquities; and one hour a week is devoted to the special study of English Phonology. The work in Middle English consists in extensive reading of Middle English texts and the study of Middle English dialects. The course in Chaucer is linguistic, chiefly aiming to introduce the student to Chaucer's poetry and to enable him to read it intelligently. The study of Shakspeare is partly linguistic and partly literary. Two hours

each week are devoted to the interpretation of the texts of selected plays, a third to topics touching Shakspeare's life and art and to the development of the drama in England.

All the work in literature is now elective. Literary courses have been thrown open to Sophomores, so that students intending to teach literature or to do graduate work in English may study literature three years during their college course.

Methods necessarily vary with the subject and the class's degree of advancement; but three principles underlie all the work: First, To bring the student into direct contact with the literature itself; second, to make the work at once definite and literary; third, to require the student to do, under guidance, as much of the work as possible for himself. The more advanced the course, the more the student is thrown on his own resources and is expected to do independent work and present the results of his work in good form. The end sought is culture rather than information for its own sake. The literature is studied on principles of absolute art and also in its historical relations. The extensive and the intensive method are combined: wide reading to get atmosphere and breadth of view, critical study of smaller portions to develop accuracy and acumen. In the English Literature Seminary, meeting each week, the first hour is devoted to the reading of a paper by a member, the second hour to discussion. The purpose of the Seminary is to encourage independent and careful work in a somewhat limited field. The course is therefore open only to graduate students and to the more advanced students in English among the undergraduates.

VIII, HISTORY

The course of instruction in History continues throughout the Junior and the Senior year. During the first two terms of the Junior Year it is required. Except in these two instances, all the courses are elective. All are open to both Juniors and Seniors, except the courses in American History, which, it is

thought, cannot be satisfactorily pursued until after the required course in European History has been completed. Besides the general course in the history of mediaeval and modern Europe, opportunity is presented for the more detailed study of English History, of the Renaissance and Reformation, and of the History of Europe since 1815. A comprehensive course in American History is given during the first two terms of the Senior year. It is succeeded by a course consisting of practical exercises in American History, by which advanced students may be trained in original research and introduced to the higher departments and methods of historical study. The work in this course is carried on with great freedom. Those pursuing it meet as a class only occasionally, by far the greater part of their instruction being given to them individually, among the books in the library. To graduate students of history, besides the opportunity of following advanced undergraduate courses which they have not previously taken, lectures are offered on the principles of Historical Criticism and on the development of Modern European Historiography. A practical course in the dissection of early English History illustrates the former of these courses, and trains the student in method.

The Seminary of History, Political Economy, and Political Science, consisting of the four instructors, the graduate students, and a few of the most advanced undergraduates, is an organization designed to foster by co-operation the practice of original research in the subjects named, to familiarize students with methods more advanced than those of the ordinary college class, and to incite them to interest and active participation in the higher branches of work in History, Political Economy, and Political and Social Science.

IX, POLITICAL AND SOCIAL SCIENCE

The course of instruction in Political and Social Science continues through two years. All courses except Political Science

5 and 6 and Social Science 4, open to advanced and graduate students, are elective and open to both Juniors and Seniors.

In Political Science, elective courses are offered in the study of the origin and development of the State, its conditions, forms, end, and functions, and in the comparative study of European Constitutions. Courses are also given in the study of International Law and International Relations, and in the study of the Constitutions and Politics of the United States. The aim of this instruction is to pass from the abstract idea of the State to the concrete embodiments of the idea, and thence to the study of the relations existing between these as shown in the study of International Law and International Relations. An advanced course in the Development of Political Theory and a course in Roman Law make possible a programme covering two years in Political Science.

Courses in Elementary Law are arranged to provide such a preparation as will enable graduates to enter a law school with advanced standing and in many cases to shorten the law course by one year. They also afford an opportunity for those who do not enter law schools to obtain a knowledge of the elements of law.

In Social Science, courses are offered which deal with the Principles of Sociology and the Development of Primitive Civilization, and with Modern Social Problems. As in Political Science, so in Social Science, a continuous and systematic course is presented, beginning with elementary principles and leading up to the discussion of present problems. These courses are followed by a course in Social Philosophy.

X, POLITICAL ECONOMY

The work in Political Economy comprises an elementary course and three or more advanced courses, each of three hours a week. The elementary course extends throughout the year and is open to Juniors and Seniors. This course is based upon

a text-book, for the present year Ely's Outlines of Economics, supplemented by lectures, and by reading and essays on the part of the class.

Each of the advanced courses occupies one term. All are open to Seniors who have completed satisfactorily the elementary course and to such students as may have done an equivalent amount of work elsewhere. The course for the first term is regularly devoted to the history of economic thought, based, for the most part, on a careful study of the authors treated. The courses for the other two terms vary from year to year, treating of such subjects as money and banking, public finance, the history of economic life, the railway problem, the tariff question, theory and history of international commerce, the labor problem, the State as a factor in economic life, etc.

In addition to the above courses, advanced students of special ability are offered an opportunity to take part in the work of the Seminary of History, Political Economy, Political and Social Science, described in connection with the department of history.

In all courses the subject is taught from the purely scientific point of view, though the effort is constantly made to show the bearing of economic principles on questions of economic life.

XI, GERMANIC LANGUAGES AND LITERATURES

The study of German may be pursued four years as undergraduate work, in recitations three times or more a week, and may be continued by graduate students in advanced courses of one, two or three years' duration.

UNDERGRADUATE COURSES

Of the courses specified on pages 72, 73, 74, 75, the first twelve are designed specially for undergraduates, though any of the other courses are open to such of the undergraduates as are prepared to profit by them. During the first year the main aim

is to lay a thorough foundation in the language, though proper consideration is given to the literary quality of what is read. Careful attention is given to forms and to syntax, enforced by daily drill in inflection and in parsing, by written exercises, and by practice in speaking. A large variety of short pieces in prose and in verse is studied from the best modern authors, each piece being read aloud in German, translated, analyzed, and construed.

After the first year, though the grammatical side of the language is not lost sight of, the dominant aim is to lead the student to an appreciative acquaintance with modern German Literature. A careful study is made of a few masterpieces from the principal writers, Heine, Schiller, Lessing and Goethe. Considerable collateral reading and much reading at sight is required of all the classes. The Honor Courses consist of large additional readings from a variety of authors, but mainly, in each case, from the author upon whose works the class is engaged.

GRADUATE COURSES

The courses from 13 to 30, inclusive, are designed primarily for graduate students, though open to undergraduates, as the undergraduate courses are open to all graduates who have not already taken them. The courses are arranged to meet the wants of those who are intending to make a specialty of Germanic studies.

1. *The Courses in German Literature.* Courses 17, 18, 19, are open to all who are in condition to profit by them, whether undergraduates, graduates, or others. During the first term the history, institutions, and character of the early Germans are discussed; the earliest pieces of literature are analyzed; the era of Karl the Great is examined; the greater epics and the rich lyric poetry of the Swabian era are carefully studied; and the *Meistersänger*, the Renaissance, the Reformation, and the Imitative Schools of the Seventeenth Century discussed. During the second term the modern period of literary bloom is

taken up, and the life and works of Herder, Klopstock, Lessing, and Wieland, and the character and influence of the Göttingen *Dichterbund* and of the *Sturm-und-Drang* Period are canvassed. During the third term the life and works of Goethe and Schiller are the principal objects of study, though some time is given to the Romantic School and to later writers. At each meeting the members of the class submit reports of their work. Each member is also required to read before the class at least one essay each term on a special topic assigned him.

2, *The Middle High German Courses*. These extend over two or more years. A general course is given during the first year, open to all persons desiring to become acquainted with the literature of the Swabian era. Sufficient attention is given to the language to enable one to read with facility, while by lectures and reading, mainly from the *Nibelungenlied*, the class is introduced to the literature. During subsequent years, a more critical study is made of the language, style and versification, and the Court Epics and Minnesingers are critically read.

3, *Old High German*. This is studied one year, with the purpose of laying a broader foundation for Germanic Philology. Attention is directed almost entirely to the linguistic side of the study.

4, *Gothic*. Here the aim is almost entirely philological. Forms and syntax are examined with much care. Ulphilas is read as a basis of comparative study. Each word is traced not only in the Old High, Middle High, and New High German, in Anglo-Saxon, English, and Old Norse, but also in the older branches of the Indo-Germanic family, Sanscrit, Zend, Greek, and Latin; and the laws governing the changes in form are exhibited.

5, *Old Norse Language and Literature*. This course offers such instruction in the language as is necessary to read Icelandic authors, and incidentally such as will aid in the scientific study of the Northumbrian dialect in Old English. In the literature the more important pieces of the Poetic Edda

are critically read, as a foundation for the study of Germanic mythology and the poetry of the North, and one of the shorter prose Sagas as an introduction to the Saga Literature. The nature and scope of the Saga literature is dealt with in lectures.

6, *Germanic Mythology*. This course consists of an examination into the number and character of our sources for the knowledge of Germanic mythology. The modern critical historical method is applied to the study of these sources and, by the aid of comparative mythology, the origin of some of the most important myths that have impressed themselves upon Germanic literature is traced. Meyer's *Lehrbuch der germanischen Mythologie* is used as the basis of the course, which is, however, mainly conducted by lectures and investigation of the sources, for which the German Seminary Library offers an unrivalled opportunity.

7, *Dutch*. This course is at present offered only for those who have had at least one year of German. Acquaintance with the best literature is made at the very outset, and a comparative study of English, German and Dutch forms speedily insures to the student a copious vocabulary. This work is philological and literary, very important for the specialist in German or in English. If supplemented later by a study of the spoken language, it assumes great commercial value. The general student must see the advantage of knowing Dutch, so intimately were the people of Holland connected with early American history and civilization.

8, *Germanic Grammar*. The course in Germanic Grammar is comparative; in one direction with the principal Indo-Germanic languages, and in the other, with the main Germanic dialects. The authorities here are Brugmann in his *Indo-Germanic Grammar*, Braune in his *Gothic and Old High German Grammar*, Noreen in *Old Norse*, Gallee in *Old Saxon*, Siebe in *Old Frisian*, and Sievers in *Old English*. The course deals first with the sounds and inflectional forms of these dialects, and then, if time permits, the subjects of word-formation, syntax and metre are included.

9, Special subjects, calling for critical research, are assigned to advanced students.

The German Seminary

The design of the Seminary is to afford to graduate students and to such of the undergraduates as are pursuing advanced courses, opportunity to meet daily the officers of the department for consultation and guidance. For this purpose two commodious rooms in Sayles Memorial Hall have been set apart and furnished at great expense by the University. Here will be found the Conant German Seminar Library, collected by Professor Williams in Germany, in the name of the donor, Hon. Hezekiah Conant. Other generous contributors have added funds, until the collection is now worth upwards of Ten Thousand Dollars. The collection embraces, in the main, Literature and Philology, including all the leading *Zeitschriften*, but many works upon German History, *Culturgeschichte*, the History of German Law and of German Art, upon Palaeography and Geography have been added. Fifteen hundred dollars have been put into works of art, bronzes, copper and steel plate engravings, and illustrated works.

It is hoped that this Seminary may become a centre for all Germanic studies in this vicinity, and all gentlemen and ladies interested in such studies are cordially invited to make use of the advantages here afforded. The rooms are open from 8 A. M. to 10 P. M., daily; and one or more of the officers of the department may be found there during these hours.

XII, ROMANCE LANGUAGES AND LITERATURES

FRENCH

Candidates for degrees are at their entrance into College examined in French Grammar and in reading easy French prose at sight. For those who offer German instead of French, a

special course is arranged during the Sophomore year, though all are earnestly advised to do their first year's work in French before coming to College. The work of the Freshman year, which is required, is devoted to the study of the language. The object of this course is to enable the student to read ordinary French with but occasional reference to grammar or dictionary. Two hours a week throughout the year are devoted to rapid translation after preparation, and to translation, at sight, of contemporary novels and plays. One hour a week the instructor reads to the class in French, translating only when necessary, with the object of familiarizing pupils with the spoken language and of weaning them from dependence upon English as an intermediary between the text and the thought. Great stress is laid upon this part of the work. Owing to the size of the classes nothing can be here attempted in the way of writing or speaking. Provision for this want is made later in a special course. After the Freshman year all courses are elective, and, with the instructor's approval, may be taken by any. The whole of French Literature, from contemporary authors back to those of mediæval France, is canvassed. Pupils having only two years to give to the subject are advised to elect in turn Courses 4, 5, 6, and 7, 8, 9, which study the masterpieces of the two greatest periods, that of the Romantic School and Victor Hugo, and that of the Classical School and Corneille, Racine, and Molière. In these, works are presented to the class in the original by the instructor, who incidentally imparts information in regard to French life, manners, history, and art. Frequent examinations based upon the work of the class-room and upon outside reading, test the proficiency of the class. These courses are distinctly literary and artistic in their object; hence accompanied by frequent illustrations from the rich fields of English Literature and French Art.

Graduate Courses

All courses other than the above are intended for Seniors or graduate students intending special attainments in the

Romance Languages and Literatures. Two successive one-hour courses are offered in French grammar, including practice in writing French. In connection with both some effort is made toward speaking French. The literature of the eighteenth and of the sixteenth century are read with reference, respectively, to the political and the artistic movements of the time, some attention being paid to the development of diction and of spelling. The course in Old French Literature serves also as an introduction to the study of Romance Philology. Special programmes of study and investigation are arranged for candidates for advanced degrees.

ITALIAN AND SPANISH

In the introductory Italian and Spanish courses the general aim is similar to that of the Freshman course in French, namely, the acquisition of ability to read modern authors easily. The classic courses are literary, and necessarily devoted to the study of the great masterpieces of the two literatures. In Italian 4, 5, 6, the class reads the whole of Dante's *Divina Commedia* in the original. Italian 7, 8, 9, a new course, is for the benefit of all literary students in the University who would like carefully to study the greatest masterpiece of the Middle Ages, one of the great world-poems, but who cannot study the Italian language sufficiently to read it in the original. It is hoped that this course of Dante in English will meet the wants of a large number.

The Romance Department Room

A special room, Sayles 4, has been set aside for the use of advanced students in the Romance Department, and is furnished with shelves, tables, and electric lights. Here a choice special library has been begun, and here all graduate courses are conducted. The professor or instructor in charge is constantly at hand to give informal assistance and advice to those admitted to these privileges. A large number of books have already been collected, and it is hoped that gifts from friends of the University, not only in the way of books but of

engravings and works of art illustrating the literatures studied, will soon increase the value as well as the attractions of this important feature of the department's work.

XIII, PURE MATHEMATICS

Mathematics is prescribed during the Freshman year for all students entering College for the degree of Bachelor of Arts and Bachelor of Philosophy, and elective during the remainder of their courses. These required courses are essential to a thorough knowledge of the elementary principles of mathematical science, which prepare the student for any advanced mathematical work. They serve also to discipline the mind in careful analysis and strict logical methods of thought, and to develop the reasoning powers. They likewise cultivate the invaluable faculty of exact expression.

In the higher elective classes in the Pure Mathematics the aim is also two-fold: first, mental discipline for those students who do not intend to pursue the subject further; and second, a thorough mathematical foundation for those who desire to make mathematical studies a specialty.

XIV, APPLIED MATHEMATICS

The studies in applied Mathematics, while eminently disciplinary, are arranged with special reference to professional work or scientific investigation.

Here as in the pure mathematical studies students are required to perform original problems bearing upon and illustrating the principles under consideration, problems, so far as possible, similar to those with which students will be likely to meet in their professional work.

I, MECHANICS

1, Elementary Mechanics, embracing the fundamental principles of Mechanics, treated from a mathematical point of view, with such experiments as are necessary to illustrate principles.

2, Mechanics of Engineering. The following are among the subjects considered: The laws governing motion and force, Statics of rigid bodies, Theory of the Centre of Gravity in surfaces and solids, Equilibrium and Dynamical Stability of bodies rigidly fastened, Resistance of Friction, Elasticity and Strength of Flexure, Shear and Tension, Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs, and the flow of water in rivers, canals and conduit pipes, and water as a motor.

3, Theory of Structure, embracing the construction of Foundations in all classes of soils, Pile Foundations and Substructures, Stability of Blocks of Stone or Brick entering into the structure of walls or buildings, Arches, Retaining Walls and Piers, and trigonometrical Calculations of Strains on different varieties of framed structures, including Trussed and Suspension Bridges, with both steady and rolling loads.

4, Graphical Analysis of strains on Roof and Bridge Trusses and other framed structures, and strains on cables and other portions of Suspension Bridges.

II, DRAWING

Instruction in Mechanical Drawing is based upon Pure Mathematics. The aim is not simply to teach men how to draw, but how to think and investigate for themselves. Rules and formulas employed in problem construction are used only after they have been thoroughly discussed and satisfactorily proved. Both the theory and the practice of the subject are taught, and an effort is made to bring before the students those principles which will be most needed in handling the complicated problems of the mechanical world. All work in the department is regulated by a schedule which defines the nature and amount of work to be accomplished each week. Drawings which fall below the standard are rejected, and reconstructions required. In this way tendencies toward carelessness are eliminated, and a good quantity and quality of work is secured.

In Freehand Drawing students are required to make sketches of models as they appear from individual standpoints. The aim is to make the eye quick and accurate in observation and the hand skilful in representation. The Course in constructive Geometry is a direct application of Pure Mathematics. Problems are assigned without any direction in regard to their solution, and students are required to investigate and report.

In Machine Drawing, machines are taken apart and fully explained. The various portions are then sketched, named, detailed, and assembled. The assembly drawing, which is a combination of the details, is constructed from the details, and not from the machine itself.

A library for the use of students interested in Mechanical Engineering has been begun in the drawing room. Through the generosity of friends a number of valuable works have been secured and funds are already in hand for the purchase of others.

III, CIVIL ENGINEERING

The course leading to the degree of Civil Engineer occupies four years. Each part of the course is open as an elective to any properly qualified student.

The work is made as practical as possible. In the Elementary Course in Surveying, the field work is done in two-hour or four-hour exercises on the college Campus. In the Advanced Course in Hydrographic Surveying, and in the course in Railroads and Highways, the field work occupies an entire afternoon of each week during most of the Spring and Fall Terms.

The field work in the course on Railroads and Highways includes the actual Preliminary Survey and Location for a short line somewhere near the city of Providence.

The course in Structures includes a thorough study of Roofs and Bridges; Calculation for Different Loadings; Calculation by Graphical Methods; Details of Construction, and a large amount of work in Design.

IV, MECHANICAL ENGINEERING

The course leading to the degree of Mechanical Engineer consists entirely of prescribed studies and occupies four years. Any part of the course may be separately elected by students who have received the required preparation.

Subjects of special importance in the professional work of the course may be summarized as follows :

Drawing. In the courses in Elementary, Mechanical, and Freehand Drawing, Descriptive Geometry, and Shades, Shadows, and Perspective, the student is given a good foundation for that class of subjects which consist partially or wholly of drawing. Among such subjects taken up in this course are Machine Drawing, Gearing and Machine Design. In Machine Drawing the student makes freehand sketches from machines, and constructs detail and assembly drawings from his sketches. In Gearing, a thorough discussion of the principles of toothed gears is accompanied by accurate construction of practical cases by means of drawing. In Machine Design the student solves, by means of drawing and calculation, a progressive series of practical problems ; these problems involving a knowledge of the ordinary mechanisms which are discussed in the course in Kinematics, and of the strength of materials and structures treated in Mechanics.

Mechanics. The work in Mechanics, described on pages 123, 124, is supplemented by the courses in Materials of Engineering, Laboratory Methods, and Engineering Laboratory, noticed below.

Materials of Engineering. A knowledge of the origin, nature and method of preparation of the common metals and various materials used in construction, is of the utmost importance to the mechanical engineer. While the experimental determination of the strength, elasticity and other useful qualities of these metals and materials properly form part of an Engineering Laboratory course, their origin, nature, and preparation are subjects for class-room discussion, and are treated

as such. The part relating to the reduction of the various metals from their ores is taken up in detail, and so far as possible illustrated with the lantern and slides. Special attention is given to the methods of manufacturing iron and steel.

Laboratory Methods. This is a short course, whose object is to explain the equipment of the Engineering Laboratory, methods of carrying on various tests, methods of calibration, and the details of laboratory standards.

Engineering Laboratory. The work of this course is extremely important, consisting of practical experiments with the apparatus and materials of engineering. It comprises efficiency tests of both steam and gas engines, boilers, steam pumps and various forms of motors; calibration of the various instruments used in engineering practice; belt and lubricant tests; comparison of different methods of power transmission; also experimental determinations of the strength of the various materials of engineering.

Thermo-dynamics, Steam Engines, and Boilers. In these courses are discussed the fundamental principles of Thermo-dynamics as applied to various heat engines, especially the steam engine; the distinctive mechanisms of steam engines, and the types and modes of construction of steam engines and boilers are investigated. These courses are followed by a course in Steam Engineering, in which the principles of Thermo-dynamics, and the results of experimental investigations are applied to the solution of advanced problems in designing steam engines and boilers.

Workshop. This course is intended to give the student not only a knowledge of the various tools and machines used in mechanical processes, but also to make him familiar with the methods of accurate construction. The work usually begins with the ordinary operations of the carpenter and joiner. In pattern-making as much time as possible is given to details such as the core-box, proper allowance for shrinkage, finishing patterns with special regard to ease in moulding, etc. The different mechanical processes and machine tools used in metal

working, and the operations for the performance of which the machines were particularly designed, are taken up later. It is intended by means of a series of progressive exercises to develop a maximum amount of manipulative and constructive skill in the handling and making of various tools and parts of machines. Where exceptional ability is shown, the student will be encouraged in the construction of a complete machine, of value either in the market or to the general work of the University.

Thesis. A graduation thesis is required from all students taking the degree of Mechanical Engineer. It may be one exhibiting research, or an account of some original investigation carried on by the student. In either case it must exhibit satisfactory ability in the student as an engineer, gained during his course.

A graduating piece is demanded, both in the drawing-room and in the work-shop, which shall show proficiency in those departments.

XV, CHEMISTRY

The Department of Chemistry is intended to afford instruction in the general principles of Chemistry, in Analytical Chemistry, and in the practical applications of these subjects. Opportunity is afforded for studies in Metallurgy, Medical Chemistry, Agricultural Chemistry, and in the chemistry involved in the bleaching and dyeing of textile fabrics.

The courses are not confined to undergraduates, other persons, if prepared to pursue the study to advantage, being admitted; but a knowledge of the general principles of Chemistry is absolutely necessary to profitable work in any of the more advanced courses.

The course for the first year covers three grand divisions: the study of the non-metals, of the metals, and of the carbon compounds. The course for the second year includes qualitative analysis and elementary quantitative analysis. Work in the other branches mentioned may follow that specified

for the first two years. In all cases students perform laboratory work and attend lectures. The lectures in this department deal with the experiments of the students, and also with chemical philosophy, stoichiometry, and new applications of chemical substances in recent inventions.

The Courses 1, 2, and 3, called Descriptive Chemistry, include also Experimental and Theoretical Chemistry. Instruction is given by textbooks, by lectures, and by individual laboratory work on the part of the student. The lectures are illustrated by experiments and colored charts and by blackboard exercises.

Qualitative Analysis includes a study of the properties of the metallic elements together with their separation from certain of their compounds, also of the chief non-metals and the acids produced by them.

Elementary Quantitative Analysis includes a study of quantitative precipitations and separations of the most important elements and compounds, and a somewhat thorough review of the principles upon which quantitative apparatus is constructed, including the theory of the chemical balance, the merits of the different systems of weights and measures, the use of burettes, graduated flasks, etc.

Course 9, Advanced Quantitative Analysis, includes the assaying of metallic ores, the analysis of agricultural materials including commercial fertilizers, the testing of chemicals used in textile establishments, etc. Students are also required to prepare and read before the class essays on a series of assigned subjects relating to chemical manufactures.

Courses 10, 11, 12, Organic Chemistry, include an extended series of exercises in the preparation and testing of organic compounds. These compounds are so selected as fairly to represent the different branches of this important department.

Courses 15, 16, Medical Chemistry, include a thorough study of certain animal products, such as normal urine, morbid urine, various calculi, etc.

Course 20 includes the scouring and dyeing of wool, the cleansing of wool in the fleece, the removal of burs, the preparation and use of the necessary mordants, dye-stuffs, etc.

The Chemical Laboratory is open to students from 8.30 A. M. to 3.30 P. M. on every week day except Saturday.

For laboratory fees, etc., see Index under "Expenses."

XVI, PHYSICS

Wilson Hall is well constructed and equipped for its purposes as a Laboratory for the experimental study of Mechanics and Physics.

The Physical Laboratory is open to students five days in the week, from 9 A. M. to 6 P. M.

For admission to the work of this Laboratory a familiarity with the elements of Mechanics is required, and also a fair knowledge of the fundamental facts and theories of Sound, Light, Heat, and Electricity. The general descriptive Course 1, 2, offered to the Sophomore Class, is intended to meet this second requirement. It is a course of lectures abundantly illustrated by experiments. Questioning on the topics treated in the preceding lecture, with occasional written examinations, serve at each exercise to test the progress of the class. This course is intended also as an outline of the subject for those who wish acquaintance with it merely as an element of general culture.

For those who wish to pursue Physics more in detail than is possible in the general course, more advanced courses are offered. In Course 12 a text book is used. Special attention is given to those parts of the subject not adequately treated in the lectures, and the mathematical treatment of physical problems is made a prominent feature. Course 13 is intended to present in a mathematical form the dynamical problems that lie at the basis of all theoretical Physics. Numerous original problems are assigned from time to time and occasional written exercises are held to test the progress of the class. The purpose of Course 14 is to develop the fundamental problems and theories of Thermo-dynamics and to apply these to the theory of heat engines and the dynamical theory of gases.

Advanced laboratory work is arranged for those taking Courses 12, 13 and 14 who wish to devote extra time to such work.

Courses 3 and 11 have been designed for those who wish to pursue the study of electricity in a practical way. Course 3 treats the subject in an elementary manner. Sylvanus Thompson's *Elementary Lessons in Electricity and Magnetism* is used as a text-book. The laboratory work consists mainly in the use of electrical instruments, and practice in the methods of electrical testing and measurement. In Course 11 the fundamental principles which underlie the design of dynamos and motors are developed, and laboratory work is offered in the practical testing of electrical machinery.

Graduate Work in Physics. The Physical Laboratory is open to those whose training warrants their undertaking advanced work. The instructors in charge are glad to supply such students with every facility consistent with the regular work of the Laboratory.

For special expenses in the Physical Laboratory and in the Shops, see Index, under "Expenses."

XVII, ASTRONOMY

The courses of study offered in Astronomy are eight, two lecture courses in General Astronomy, five laboratory courses in Practical Astronomy, and one in Scientific Method. The last named will for the present be given every other year, the third term, alternating with a course in General Meteorology. The lecture courses are designed to acquaint the student with the fundamental conceptions of the science, the methods of its professional study, and the present state of our knowledge of the heavenly bodies. A general treatise on Astronomy is made the basis of these courses and is supplemented by lectures, and by abstracts upon assigned topics prepared by members of the class. The laboratory courses comprise a technical study of the theory of astronomical instruments and practice in their use. The sextant, transit, zenith, telescope, and equatorial are taken up in turn, and the astronomical problems of Navigation and Geodesy solved by actual observation and calculation.

The Ladd Astronomical Observatory

The Observatory is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, spectroscope, and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in Astronomy and for practical use in the applied courses open to undergraduates and graduates.

The Observatory furnishes constant time signals to the Rhode Island Electric Protective Company, by which they are distributed to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity and precipitation are made throughout the year. Special observations occur as opportunity offers.

XVIII, ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

Zoölogy is taught to the Juniors and Seniors by lectures, demonstrations, and laboratory work. It is the aim to adapt the lectures to the needs of the general student. It is taken for granted that no liberally educated person should be without a general knowledge of the principles of Zoölogy, the laws of Animal Morphology, the relations of animals to the world about them and to man, and the probable mode of their origin, including the subjects of heredity, hybridity, the variation of species, and the views now held by different schools of evolutionists.

Specimens of the following rarer types have lately been procured for use in this department: African lung-fish (*Protopterus*), *Polypterus*, *Siren*, *Amphiuma*, *Caecilia*, and a skin and skeleton of the Australian spiny ant-eater (*Echidna*); also skel-

etons and other osteological preparations of fishes, batrachians, lizards, birds, and mammals, and valuable histological and embryological preparations.

GEOLOGY

Instruction in Geology is given during the first and second terms by means of lectures, laboratory work, and field excursions, with especial reference to the geology, structural and economic, of Rhode Island. The lectures are illustrated by diagrams, models in wood and plaster, lantern views illustrating volcanoes, earthquakes, and other geological phenomena, and fossils. During 1885, the palaeontological collection was re-arranged and labelled for the use of students. The fossil flora of Rhode Island is fully represented, and important animal remains of the Rhode Island carboniferous rocks were added in 1888 and 1889.

The course includes lectures and laboratory work in elementary Mineralogy and Lithology. Many duplicate crystals have been purchased, and the students are allowed to use them freely in their work. A special collection of Rhode Island minerals and rocks has been formed, and additional European educational specimens secured.

Through the kindness of Commander Bartlett, U. S. N., two large models from the office of the United States Hydrographic Bureau, Washington, one of the Atlantic ocean-bottom and one of the Carribean sea-bottom, were deposited in the lecture-room in 1889. Additional models in plaster and *papier-maché* were added in 1892.

ANTHROPOLOGY

Instruction in Anthropology is offered as a Senior elective in the third term, consisting of a course of lectures on the physical or natural history of Man. It embraces the principles of

Ethnology, Ethnography, and Prehistoric Archaeology. The course treats of the following topics:

- 1, Man as related to other Primates, including the differential characters of Man.
- 2, The Human Races.
- 3, The Prehistoric Races and the Antiquity of Man.
- 4, The Origin of Man.
- 5, Language and Race; Writing.
- 6, The Arts of Life; Amusements.
- 7, Primitive Culture, including Folk-lore, Myths, and Primitive religious Cults.
- 8, Primitive Society.

The course is illustrated by a series of relics in bone and stone of the pre-historic races of Europe, by American stone and bone implements and collections from New England shell heaps, and by lantern views illustrating the fossil races of man in the Old World.

XIX, COMPARATIVE ANATOMY

The Courses in Comparative Anatomy, three in number, continue the more introductory biological courses of the preceding years during the latter part of the Junior and the first two terms of the Senior year. The Junior course is a laboratory course in Invertebrate Anatomy, and is better pursued as a course supplementary to Zoology. The more typical invertebrate animals are dissected, and certain anatomical preparations are made by the students. A limited number of collecting trips are made to the more promising localities along the shore of Narragansett Bay.

During the first and second terms of the Senior year Vertebrate Anatomy is alone considered. Though the course is nominally a laboratory course, it is expected that the students will do a large amount of work outside the class-room. It is also expected that students electing this course do so because they take a special interest in the subject.

A course in Vetebrate Anatomy is offered to Sophomores the present year. It extends through the third term and is a practical laboratory course. The external and internal anatomy of one of the lower vertebrates is considered, and certain simple laboratory methods and demonstrations explained.

It is designed to make the courses in Comparative Anatomy of immediate practical value to those who intend to study medicine. On page 94 is given an outline of the medical preparatory course.

A laboratory course in Cellular Biology is offered to students who have completed Courses 3, 4, in Comparative Anatomy. It deals with the physiological and morphological phenomena of the cell, the formation and histology of tissues, the morphology of fertilizations, and with some general aspects of heredity.

A course covering the general morphological and physiological aspects of bacteria has also been inaugurated. There is provided in the Anatomical Laboratory a good supply of the necessary glass-ware, sterilizers, homogeneous apochromatic objectives, special treatises, journals, etc.

In 1894-95 a course in General Biology will be offered, presenting the most general aspects of biological science. The types studied will elucidate the meaning of such terms as nutrition, growth, reproduction, metabolism, specialization, and evolution. The purpose will be to gain a knowledge not of individual characteristics but of the fundamental laws governing the morphology and physiology of living things. This course will furnish the discipline peculiar to observational science, as well as a valuable foundation for the pursuit of theology, sociology, psychology, or medicine.

The Biological Club, comprised of students, meets at frequent intervals for the careful examination of current biological literature, and for the discussion of biological questions. The members also engage in field work, to augment the University's collection of Rhode Island fauna.

The Anatomical Laboratory is a large, well-lighted room, fully equipped with microscopes, microtomes, wax models, reagents, and the like. There is also at the disposal of the students an excellent collection of preserved anatomical material. Such is the location of the University that living organisms, marine and other, are easily obtained, suitable for use in the various biological courses above described.

Marine Biological Laboratory. The University controls two of the tables in the Marine Biological Laboratory at Woods Holl, Mass. Students who creditably pursue certain courses in Zoölogy or Comparative Anatomy may hope for appointment to these tables, where, during the summer months, exceptional opportunities are offered for biological investigation.

XX, PHYSIOLOGY

During the third term a number of lectures are given to the Freshman Class upon matters relating to personal hygiene. In them attention is called to the important laws of health, and practical advice given in regard to exercise, hours for study and sleep, the care of the digestive functions and the eyesight, and upon other matters in which the habits of students are so often faulty.

In the Junior year elementary instruction is given in Anatomy and Physiology, the subjects being considered from a scientific rather than from a practical point of view. The object of these lectures is to lay the foundation for a study of the morphology of the lower animals, those organs and functions which are of particular interest in connection with this receiving the most attention.

This course together with the various courses in Chemistry and Biology is especially adapted to students who intend, after graduation, to pursue the study of medicine.

XXI, BOTANY

Instruction in Botany is given by means of lectures and

laboratory practice, collateral reading and essays being also required. The course occupies three years.

The first year is devoted to General Morphology and to practice in analyzing and describing plants. A few difficult families, such as *Compositae*, *Cruciferae*, and *Umbelliferae*, are especially treated.

In the Histological course the microscopic structure of the higher plants is studied in connection with lectures, and instruction is given in microscopic technique. Only students of marked attainments in Botany are permitted to take this course.

In the Cryptogamic course the lower orders of plants are studied by means of certain types. Lectures accompany the laboratory work.

Original work and observation are encouraged. Students are required to make illustrative drawings from the objects studied. It is designed in all cases to foster independent reasoning and thoughtful comparison.

The Herbaria and the Museum of Economic Botany

In addition to the large number of herbarium specimens, representing all the orders and most of the important genera, there have been commenced, by the Curator, series of botanical exhibits, intended to exemplify the entire range of Botany, in which will be shown so far as practicable everything of vegetable production which provides for the body sustenance or shelter, clothing or protection, or prevents or relieves illness, ministers to man's physical needs or satisfies his love of the beautiful. These embrace: 1, A collection of tree exhibits, so prepared as to reveal the character of each tree, and its varied uses in the mechanic arts. 2, A collection of all fruits and seeds, preserved dry or in spirit, with microscopic exemplification of their internal structure. 3, A collection of all food products with displays of the various processes by which the raw material is made useful. 4, A collection of all textiles, with representations of the methods by which they are obtained.

Such products as the various sugars, starches, gums, resins, oils, will be fully shown, and also the manner in which they are separated from the other matter contained in the vegetables which supply them. All crude vegetable products and their extracts which are of value in Pharmacy will be so presented as to give the student good opportunity to inform himself in botanical *Materia Medica*.

Under proper restriction, all the botanical exhibits are made accessible to the public and to students.

For the slight special fees in connection with botanical study, see Index, under "Expenses."

XXII, AGRICULTURE AND THE MECHANIC ARTS

An extended course of study in Agriculture and the Mechanic Arts is open to all students. It includes the courses offered in the departments of English, Political Economy, Mathematics, Engineering, Chemistry, Physics, Zoölogy, Geology, Physiology, Botany, and Military Science, as given above, and also special lectures on Agriculture. These relate to the study of soils and to applied Economic Zoölogy, according to the following schedule of topics:

Introduction: History of Agriculture, tracing its development through the Jewish, Grecian, Roman, Spanish, and English nations to the formation of agricultural and horticultural societies in the United States, with a brief account of the earlier of these formed within the years 1785 to 1829 inclusive. The subject is then continued by the discussion of the following topics:

I, Primary Condition of Matter. II, Formation of soil from Inorganic Elements. III, Source of Organic Matter. IV, Constituents of Plants required by Soil. V, Constituents of Soil in the Mass. VI, Results of Experiments with Unfertilized and with Fertilized Soils. VII, Composition of Fertile Soil. VIII, Cardinal Law in Agriculture. IX, Rotation of Crops. X, Discriminating Application of Fertilizers.

Under the general head of Economic Zoölogy are discussed the distinctive characteristics of the most approved breeds of neat cattle, horses, sheep, and swine. Practical instruction is given upon insects, birds and animals injurious or beneficial to the farmer and horticulturist; also by the visiting of farms and by obtaining and preserving specimens in Natural History. Taxidermy is also taught when desired by the class.

Following the above course on Agriculture, by Professor Jenks, instruction in Economic Entomology is given by Professor Packard. This course consists of lectures and recitations, and is illustrated by specimens of the insects most injurious to crops.

The above course is arranged in pursuance of the agreement entered into between the Corporation of Brown University and the General Assembly of the State of Rhode Island in January, 1863, by which the University receives the benefit of the Act of Congress approved July 2, 1862, entitled "An Act donating Public Lands to the several States and Territories which may provide Colleges for the Benefit of Agriculture and the Mechanic Arts."

XXIII, MILITARY SCIENCE AND TACTICS

Instruction in these branches is given by an officer of the United States Army, regularly detailed for this purpose. For three hours per week during the Fall and Spring Terms, and one hour per week during the Winter Term, military drill, accompanied by the appropriate theoretical explanations, is required of all Freshmen and Sophomores, and of all special students of the first and second years, unless they are excused for physical disability or other sufficient cause. Each of these students is required to provide himself with the University uniform—blouse, trousers, cap and gloves. Neat and very serviceable uniforms are furnished through the University, at a cost not exceeding \$13.50 apiece. All necessary arms, ammunition and equipments are provided by the United States Government.

The infantry instruction embraces the school of the soldier, of the company, and of the battalion, besides drill in ceremonies and in small-arm gallery and target practice.

The artillery instruction is limited to the manual of the piece, mechanical manœuvres, aiming drill, sabre exercise, and target practice.

Officers are selected and appointed irrespective of class, according to proficiency and particular fitness.

Artillery detachments are selected by the commandant from the students most accomplished in infantry drill.

Target practice is held under the immediate supervision of the commandant, and every precaution taken to guard against accident.

On the graduation of each class, the names of such students as have shown special aptitude for military service are reported both to the Adjutant-General of the United States Army and the Adjutant-General of the State of Rhode Island. The names of the three students most distinguished in the studies and work of this department are, upon graduation, inserted in the *United States Army Register* and published in general orders from the headquarters of the army.

GENERAL INFORMATION

The University Extension

PROFESSOR WILFRED H. MUNRO, A. M., DIRECTOR

The purpose of the Extension is to afford the benefits of University teaching to those who cannot attend a University. Lecture Courses are given upon any subject for which there is a sufficient popular demand, in any place easily accessible from Brown University.

The aim of the instructor is to make his course of ten weekly lectures cover about the same ground which a college class would go over in ten weeks. The teaching scheme comprises Lectures, Class-Work, Essays, Reports, etc. An examination, voluntary, is held at the close of each course, and certificates are awarded to those who pass it.

The University charge for a course of lectures is one hundred dollars (\$100).

The Centre is required to pay the traveling and hotel expenses of the lecturer.

Experience has shown that the best work can be done in small classes, of from thirty to fifty persons, and that an attempt to popularize a course is unwise. The end and object of the Extension is not to amuse but to teach.

It is recommended that each Centre charge a fee of \$3 per person for each course. This will necessitate a guaranteed attendance of thirty-five people. Where several courses are carried on by the same Centre, an average attendance of thirty-five should be secured.

During the academic year 1892-93 the following lecturers were engaged in the work: President E. B. Andrews lectured on the Silver Question, Professor W. W. Bailey on Elementary

and on Advanced Botany, C. M. Brink, A. M., Instructor in Rhetoric and Oratory, on the Shakspearean Drama, Professor W. C. Bronson on the Novel, Dr. E. B. Delabarre on Psychology, Dr. H. B. Gardner on Banking and on Political Economy, Professor Courtney Langdon on Five Shakspearean Plays, Mr. W. C. Langdon Jr., Instructor in English, on English Poets of the Nineteenth Century, Professor W. D. Mount on The Steam Engine, on Right Line Drawing, and on Autographic Projection, Professor W. H. Munro on Mediæval History, on Modern History, and on the Period of the Reformation, Professor W. C. Poland on Classical Archæology, Messrs. Tower and Walter, Instructors in Biology, on Biology, Professor W. Upton on Astronomy, A. E. Watson, A. B. (B. U. 1888), of the Thompson-Houston Company, on Practical Electricity, and Dr. G. G. Wilson on Social Science.

With two or three exceptions the lecturers just named will continue their work in the Extension. In addition, the gentlemen named below will engage in the work during the coming year; Professor C. V. Chapin will lecture on Physiology, A. C. Crowell, A. M., Instructor in German, on German Literature, Dr. G. W. Field on Biology, Mr. R. H. Ferguson (B. U. 1884) on Astronomy, Dr. W. B. Forbush, Instructor in Comparative Religion, on the History of Religion, J. F. Greene, A. B., Instructor in Greek, on History, Professor A. G. Harkness on Roman Life and Literature, D. W. Hoyt, A. M., on Elementary Physics, Dr. J. R. Jewett on the History of the Bible Lands, H. L. Koopman, A. M., Librarian of the University, on Libraries, Books and Reading, Alfred G. Langley, A. M. (B. U. 1876) on the History of Music, the Great Masters and their Works, illustrated by Selections, Dr. J. M. Manly on English Literature, Professor James Seth on the History of Philosophy, L. F. Snow, A. M., Dean of the Women's College, on English Literature, H. M. Stone, A. M., Instructor in English, on English Literature, Dr. Samuel Thurber (B. U. 1858) on Pedagogics, and Professor A. Williams on German Literature.

Other members of the University Faculty will lecture if their services are required.

During the academic year 1892-3 MISS MARY LOUISE BROWN, of 10 Beacon Avenue, Providence, passed her seventh examination in University Extension Courses, and thereby won a University Extension Certificate.

All communications respecting the Extension Work should be addressed to the Director of the University Extension, Brown University, Providence.

Educational Privileges for Women

By a vote of its Corporation on September 2, 1891, the University opened all its examinations to women. By a further vote on June 21, 1892, it opened all its degrees to women. By a third vote on June 23, 1892, to women already holding Bachelors' degrees, and to other women of liberal education who may secure special permission, it opened, on the same terms as to men, all those of its courses of instruction which are intended for graduate students.

That is, so far as its graduate department is concerned, the University places women on exactly the same footing as men. In respect to instruction, examinations, and degrees, the two sexes are treated precisely alike. The expenses, too, are the same. See below, under "Expenses," "Special University Dues," 6.

In undergraduate studies the University offers to examine all women candidates, and to crown with any of its degrees every woman candidate who passes all the examinations required for the degree sought; but in this department, the University, as such, does not yet offer to women any classroom instruction. First rate undergraduate instruction for women is, however, provided otherwise. See below, page 145.

The conditions of women's examinations upon undergraduate work are as follows:

Women take entrance examinations at the same times and places and under the same conditions as men. See pages 32-42 inclusive. But women candidates may present certificates in place of entrance examinations, subject to the same conditions which apply to men. All women's examinations in college studies are to be taken at the University, none elsewhere.

To be admitted to advanced examinations, candidates must have passed all entrance examinations, as well as all examinations which cover the work of previous terms.

The subjects for women's examinations, when not identical with those in the courses of instruction given in the University, in all cases closely correspond to them.

Reports of proficiency are given after all examinations. Upon the satisfactory completion of any minor course of study, candidates are given certificates of their attainments, while those who complete with credit any of the regular curricula of course receive diplomas.

The Women's College

IN CONNECTION WITH

BROWN UNIVERSITY

COMPOSED OF UNDERGRADUATE STUDENTS WHO ARE REGULAR CANDIDATES FOR BROWN UNIVERSITY EXAMINATIONS, RECEIVING UNOFFICIAL INSTRUCTION IN COLLEGE STUDIES

LOUIS FRANKLIN SNOW, A. M., DEAN AND TREASURER

The considerable number of women candidates for undergraduate examinations has induced a number of gentlemen in the Faculty to institute systematic preparation for these exam-

inations. Classes are formed in all the branches elected, and are instructed by the same men who have in charge the corresponding classes inside the University. There has thus sprung into existence a Women's College, technically and legally under the University only so far as its examinations are concerned, yet in effect a Department of the University, so closely connected are examinations with the instruction therefor.

The elegant and well-lighted building, No. 235 Benefit Street, near the University, forms the headquarters of the College. It is open from 9 A. M. till 6 P. M. every week-day during term time, and all members of the classes, as well as all women graduates or other women preparing for the Brown University examinations, are welcome to occupy it, free of charge.

Regular teaching and a regular time schedule are at present provided only for the first three years, as nearly all undergraduate applicants for college teaching, so far, are of Freshman, Sophomore or Junior grade, but any women wishing instruction preparatory to Senior examinations will be specially provided for on application to the Dean.

Pupils are also admitted to select courses covering but single terms, and even to work in single branches.

Each applicant for registration in such a course must present to the Dean sufficient evidence of her ability to pursue successfully the subject chosen. Also, every select student, unless specially excused by the Dean and by the Professor in charge of her course, must prepare herself for examination at the completion of her course.

Careful attention is given to Physical Culture. Exercises with dumb bells and Indian clubs and in Swedish movements are required of all women students two hours weekly during the second term.

Expenses

To women pursuing undergraduate studies the charges are as follows:

For Instruction: \$2.50 per term, or \$7.50 a year, for every hour of instruction per week. Thus, each full course of studies involving the usual fifteen hours of class-room attendance and instruction a week, costs \$37.50 a term, or \$112.50 a year. Laboratory charges are additional to this. These sums are fixed as nearly as possible by the actual cost of the instruction.

For Entrance Examinations: \$3 for examination leading to a single course; \$10 for a full set.

For Term Examinations: \$10 for each full set, viz., examinations on any full term's work. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the fee is 75 cents per weekly hour's work. Thus, the examination upon a course which requires three hours in class-room weekly costs \$2.25; one upon a course of six hours, \$4.50; and so on.

For Matriculation: Every undergraduate candidate for a degree pays, upon admission to the College, a matriculation fee of \$5.

For Registration: Every special student pays, upon admission to any term course, a registration fee of 25 cents.

Graduation Fee: Every member of the Senior Class pays, at the close of her course, a fee of \$8 for her diploma and other expenses connected with graduation.

It will be seen that the total cost to each student, including the examination fees to the University, is under \$150 a year, therefore somewhat less than the tuition and incidental expenses of a student in the University proper. See page 167.

Before each University examination period the Dean of this College files with the Registrar of the University a list of all undergraduate candidates for University examinations who are approved by the instructors in the Women's College, thus certifying to the fitness of the candidates to undertake the examinations desired; but no candidate will be approved whose term bill or examination fee is not satisfactorily arranged.

Ladies from a distance wishing to avail themselves of the educational opportunities offered by the University can at present find homes only in private families. Every effort is made to arrange for any who may apply.

According to its present prospects, the College must in a year or two at most outgrow its present quarters. The Women's Department of the University must soon have an ample, permanent home of its own, a well-endowed and commodious college establishment, presided over by an accomplished lady principal. Half a million dollars is needed for this purpose, partly for a suitable building (two contiguous ones would be preferable), with kitchen, parlor, dining, recitation, exercise and debating halls, and dormitory accommodations for fifty or seventy-five occupants, the remainder for scholarships and endowments. No mere "annex" is desired or intended. The College must be part and parcel of the University, giving women students the full university status, and at the same time so furnished, endowed, and equipped as to offer them every facility for education, physical and social, as well as intellectual, now anywhere within the reach of male students.

The University Library

The University Library dates from the year 1767, when the Rev. Morgan Edwards collected books for it in England. In 1843, when Professor Jewett's Catalogue was printed, and soon after the removal of the Library from University Hall to Manning Hall, it contained ten thousand volumes.

In 1878, the date of its transference to the present building, it contained forty-eight thousand volumes. It now numbers, including the collection of the Soldiers' and Sailors' Historical

Society, and the books in the Classical and German Seminaries, eighty thousand bound volumes, and upwards of twenty thousand unbound pamphlets.

The collection 'of the Soldiers' and Sailors' Historical Society consists of newspaper cuttings from 1861 to 1865, neatly arranged in folio volumes, and of books and pamphlets relating to the War, together constituting an invaluable mass of sources for the history of that Period. They are placed in handsome walnut cases on the third floor of the building and are easily accessible for consultation. The Main Library is stored in the beautiful and costly building which the University owes to the munificence of the late John Carter Brown. The style is the Venetian Gothic. The arrangements are commodious, the facilities for warming and ventilation are perfect, and the whole structure is strictly fire-proof. The books in the Classical Seminary, numbering over a thousand volumes, were recently purchased by Professor Albert Harkness, from funds contributed for this purpose by friends of the University. The collection is devoted chiefly to the language, literature, and antiquities of the ancient Greeks, and Romans. The books in the Conant German Seminary Library also number over a thousand choice volumes relating to the German language and literature. They were purchased in Germany by Professor Williams from funds contributed by General Olney Arnold, the Hon. A. H. Littlefield, and others, including the Hon. Hezekiah Conant, who alone contributed the sum of five thousand dollars. A very promising beginning has been made in equipping a Romance Seminary Library, for which further funds are much needed. These Seminary Libraries are in Sayles Memorial Hall.

During the summer vacation the Library was re-arranged on the system of classification first devised for the Library of the Boston Athenæum. On the first two floors are shelved the books most in use, the entire west wing of the Library on the first floor being given up to History, the north wing to Periodicals, alphabetically arranged, with Antiquities and Bib-

liography, while the east wing is occupied by works on Language and Literature. On the third floor are kept certain special collections, such as works devoted to Rhode Island History, Brown University, Baptist History, Agriculture, Patents, besides many thousand volumes of works least frequently consulted, all arranged according to the classification adopted for the lower floors. All purchases are carefully made with reference to the needs of the different departments in their work of research, while at the same time there is kept in view the development of a library of general culture for the use of the students. Though many of the volumes are rare and costly, free access is allowed to the shelves. Upon the tables in the central Reference Room on the first floor are kept the latest numbers of the standard periodicals, American and foreign. Behind them, conveniently arranged, are books of reference.

The Library funds amount to fifty-seven thousand dollars.

Of this sum ten thousand dollars is a bequest from the late Professor Gammell, for the purchase of books relating to the history of the United States. Ten thousand dollars constitute the Olney Fund, for the purchase of botanical books and plants. The Diman Memorial Fund of ten thousand dollars is for the purchase of works on mediaeval and modern history. The remainder forms the Library Fund proper. To this the Hon. Nicholas Brown contributed ten thousand dollars. It also includes a bequest of five hundred dollars from President Wayland, and one of one thousand dollars from the late Albert J. Jones.

The Library is open daily for the delivery of books, from 9 A. M. till 5 P. M. The Reference Room is open for reading and consultation, every evening from 7 till 10. During the fall term the Librarian lectures one hour a week to the entering class on the use of the Library and on various subjects connected with books and reading.

The following is a list of donors to the Library during the college year 1892-93, the address in each case being Providence unless otherwise indicated :

Persons

Dr. S. W. Abbott, Boston; Rev. E. B. Andrews, LL. D.; Prof. J. H. Appleton; Dr. James B. Ayer, Boston; H. S. Babcock; Prof. W. W. Bailey; Thos. E. Bartlett, New Haven; J. S. Bishop, New York; F. C. Bliss, Surrey, England; Rev. Dr. Geo. D. Boardman, Philadelphia; Albert S. Bolles, Harrisburg; Bowers & Loy, New York; Hon. John S. Brayton, Fall River; Geo. T. Bean, Woburn; W. F. Brown & Co., Montreal; Theodora F. Burges; J. M. Burnham; Mrs. E. B. Chace, Valley Falls; Mrs. E. W. Clark, Assam; Clarke & Co., Cincinnati; J. S. G. Cobb; Dr. Jona. A. Coles, Scotch Plains, N. J.; Rev. Dr. J. N. Cushing, Rangoon; Wm. R. Cutter, Woburn; Robert N. Cust, London; Miss Charlotte F. Dailey; Dr. Francis Delafield, New York; Hon. Wm. F. De Wolf, Chicago; J. Dobbs, Madison, Wis.; Jas. H. Dodge, City Auditor, Boston; Hon. Thos. Durtee; Amasa M. Eaton; Capt. A. A. Folsom, Boston; Librarian Wm. E. Foster; A. D. Weld French, Boston; F. C. French; Prof. H. B. Gardner, Ph. D.; Ginn & Co., Boston; Wm. S. Gottsberger, New York; Arnold Green; Dr. Samuel A. Green, Boston; Dr. R. A. Guild; Hon. Wm. T. Harris, Washington; M. J. Harson; Col. R. C. Hawkins, New York; Mrs. Mary Hemenway, Boston; Ulrici Hoepli, Milan; C. W. Holmes, Elmira, N. Y.; Miss Cornelia Horsford, Cambridge; Rev. Dr. W. R. Huntington, New York; Prof. J. F. Jameson, Ph. D.; Prof. J. W. P. Jenks; A. G. Langley, Newport; Geo. B. Lapham, New York; Leach, Shewell & Sanborn, Boston; Thos. McKellar, Philadelphia; J. P. Maxwell, Denver, Col.; Wm. D. Nisbet, City Auditor; Dr. George B. Peck; Wm. A. Peele, Indianapolis; Prof. John Pierce; Rev. C. B. Perry, Nashville, Tenn.; Geo. W. Pierce, Boston; R. A. & W. A. Pinkerton, New York; M. E. Poole, Ithaca, N. Y.; Chas. Reemelin, Cincinnati; H. G. Reynolds, Lansing, Mich.; E. S. Rhodes, City Messenger; M. Rittinghausen, Cologne; Pres. J. G. Schurman, Cornell University; Secretary of Commonwealth of Massachusetts; Miss Abbie Shaw; State Secretary of Rhode Island; Geo. F. Stone, Chicago; Superintendent of Public Instruction, Wyoming; Prof. Robert H. Thurston, Cornell University; Dr. J. M. Toner, Washington; Wm. Trelease, St. Louis; Prof. Winslow Upton; Hon. Geo. H. Utter, Secretary of State; W. S. Webb, New York; Adair Welcker, Berkeley, Cal.; Chas. R. Whitman, Railroad Commissioner, Michigan; Wm. H. Whitman, Boston; Henry D. Williams, Boston, Prof. G. G. Wilson; F. E. Winsor, Boston; E. B. Wolcott Post, Wisconsin; Hon. Carroll D. Wright, Washington.

Institutions and Corporations

American Academy of Arts and Sciences; Department of Agricul-

ture, Washington; Bureau of American Republics, Washington; American Antiquarian Society; American Association for the Advancement of Science; American Baptist Missionary Union; American Bankers' Association; American Board of Commissioners for Foreign Missions; American Book Co., New York; American Humane Education Society; Amherst College; Arkansas Geological Survey; Association of Wool Manufacturers, Boston; City of Boston; Boston Public Library; Brown Daily Herald; Brown Magazine; Brown University; Chicago Board of Trade; Chicago Department of Public Works; Chicago Sunset Club; Chicago World Book Co.; Cincinnati Chamber of Commerce; Columbian Exposition, British Section; Congregational Year Book; Connecticut Bureau of Labor Statistics; Engineers' Department U. S. Army; Bureau of Education, Washington; Fish and Fisheries Commission, Washington; Free Masons', Grand Lodge of Maine; Grand Lodge of Iowa; Free Nationalist Publishing Co.; Glasgow University; Hartford Seminary Record; Harvard Graduates' Magazine Association; Harvard University Library; Illinois University; Indiana Department of Statistics; Interstate Commerce Commission, Washington; Kansas University Quarterly; Labor Commission, Washington; Library of Providence New Jerusalem Church; Lick Observatory; Massachusetts Historical Society; Massachusetts State Board of Lunacy and Charity; Meadville Theological School, Pennsylvania; Michigan Railroad Commission; Missionary Herald; New Bedford Public Library; New Jersey State Department; New York Meteorological Observatory; New York State Library; North Carolina Agricultural Experiment Station, Raleigh; Providence City Government; Providence Record Commission; Publishers' Trade List Annual, New York; Religious Herald, Hartford; Rhode Island Historical Society; Royal Institution of Great Britain; Royal Society of Canada; Society of Arts, London; St. John's College, Annapolis; Smithsonian Institution, Washington; United States Coast Survey; University of California; University of Minnesota; University of the State of New York; University of Vermont; University of Wisconsin; Washington—Department of the Interior, Treasury Department, Departments of State, War, Navy, Agriculture, Bureau of Navigation, Commissioner of Labor, Commission of Fish and Fisheries, Bureau of Education, Bureau of American Republics, Chief of Engineers, Naval Observatory, National Museum, Smithsonian Institution, Surgeon-General's Office, etc.; Yale University Library.

OTHER LIBRARY FACILITIES

Besides the University Library, the five collections of books named below are practically at the service of students in Brown University, comprising, in all, including the University Library, more than two hundred and forty thousand volumes, exclusive of pamphlets and manuscripts. These six combined collections afford library privileges such as can be found at but very few seats of learning in this country. The first three libraries named are entirely free, and the other two are readily available.

THE PROVIDENCE PUBLIC LIBRARY

All students of Brown University are allowed, upon the same conditions as other residents of the city, to make use of the well selected Public Library of Providence, containing over 64,000 volumes, which enjoys a national reputation for excellence of administration. It is situated at 73 Snow street, and is open evenings, Sunday evenings included. It is also open Sunday afternoons. The Librarian, a graduate of Brown University, prepares lists of references for guidance in the regular essay work of the University. He is glad to be consulted also with respect to books on other departments of University teaching. On the history of Slavery and of the Civil War this library possesses one of the richest collections in America.

THE STATE LAW LIBRARY

This collection of 16,000 volumes may be consulted in the Providence County Court House, at the corner of Benefit and College streets, only a few steps from the University. It is accessible to all students and, for certain lines of University study, is invaluable.

THE LIBRARY OF THE RHODE ISLAND HISTORICAL SOCIETY

The Cabinet of the Rhode Island Historical Society, which has recently undergone extensive enlargement, is situated on

Waterman street, next door to the University Library Building. The Library of the Society comprises about 15,000 bound volumes, and between 30,000 and 40,000 valuable unbound volumes and pamphlets. Through the courtesy of the Society the collection is made accessible, free of charge, to all students. It offers especial facilities for thorough research, not only in all subjects relating to the history of Rhode Island, but also in many departments of general American history.

THE LIBRARY OF THE PROVIDENCE ATHENAEUM

This collection of 54,000 well-chosen volumes, increasing at the rate of over 1,200 yearly, is also situated very near the University. Connected with it is an admirable reading-room, containing a large and choice assortment of papers and magazines, American and foreign. This Library is the property of a private corporation; but many students, as well as nearly all the members of the Faculty, own shares, while suitable persons not shareholders, who are engaged in special research requiring access to the collection, are generously accorded the use of its facilities.

THE LIBRARY OF THE RHODE ISLAND MEDICAL SOCIETY

This is a collection of over ten thousand books and pamphlets upon medicine, surgery, and kindred branches. Many of them relate to Physiology, Physiological Psychology, Hygiene, and other subjects pursued in the University. Arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This Library is in the Arnold Block, 54 North Main street. It is open every afternoon from 2 to 6 o'clock.

The Sears Reading Room

The Sears Reading Room Association, conducted by the students, occupies a large, commodious, and well-lighted room, conveniently situated on the first floor of University Hall, fitted up especially for its use, and supplied with all the most important newspapers, daily and weekly, as well as with a variety of the more popular periodicals. The learned and scientific reviews, standard literary magazines and technical journals may be consulted in the University Library.

Brown University Lecture Association

An organization of graduates and friends of the University, known as the Brown University Lecture Association, sustains each winter several courses of free public lectures upon topics in various departments. During the winter of 1892-1893, the following courses were given: Professor C. T. Winchester of Wesleyan University gave six lectures on Six Plays of Shakspere, Dr. Lysander Dickerman four lectures on the Ancient Egyptians, Professor William C. Poland of Brown University two lectures, on Recent Excavations in Greece by the American School at Athens and on Early Greek Sculpture respectively, Horace E. Scudder, Esq., editor of the Atlantic Monthly, a lecture on the American Man of Letters, Professor Edward S. Morse of the Peabody Institute, Salem, six lectures on Evolution in the Animal Kingdom, President Andrews a lecture on The Present Philosophic Status of Theistic Belief, Professor Courtney Langdon of Brown University a lecture on The Grotesque Element in Romanticism, Professor William T. Sedgwick of the Massachusetts Institute of Technology two lectures on Drinking Water and Disease and Purification of Water and Sewage.

During the season of 1893-1894, beginning November 27th, the following lectures and courses are offered to the students and the public:

William Clarke, Esq., of the London Daily Chronicle, will give a lecture on Socialism in England, six evenings will be given to Ibsen, Dr. Richard Burton of the Hartford Courant lecturing and Mrs. Irving Winslow reading selected plays, Professor James Seth of Brown University will deliver a lecture on Agnosticism, Mr. H. E. Krehbiel of New York City will give four lectures on musical subjects, with musical illustrations, Mr. George L. Fox, Master of the Hopkins Grammar School, New Haven, will give four illustrated lectures on The Public Schools of England, and Professor James I. Manatt of Brown University four illustrated lectures on Living Greece.

These lectures are in all cases free to the public, who are most cordially invited to attend. Persons desiring further information or wishing to become sustaining members of the Association are requested to communicate with the Secretary, Professor J. Franklin Jameson, 108 Bowen street.

Art Collections

PORTRAITS

Through the liberality of its friends the University has been presented with a large number of portraits. Most of them are hung in Sayles Hall, the rest in apartments of the other University buildings. The collection includes portraits of benefactors of the University, of some of its former officers, and of other men distinguished in the earlier or the more recent history of Rhode Island. It has been greatly enriched in late years by portraits presented through a committee appointed by the Alumni, "for the purpose of procuring and

placing within the walls of Brown University the portraits of her Presidents, Professors, distinguished graduates and benefactors."

THE MUSEUM OF CLASSICAL ARCHAEOLOGY

IN MANNING HALL

By the further generosity of its friends the University has been enabled to institute a Museum of Classical Archaeology. A collection of plaster casts from works of classical art has been placed in Room No. 1, Manning Hall, which has been appropriately arranged and decorated for this purpose. They are of rare excellence, and of great value for illustrating ancient history, biography and art.

The number of casts in the Museum has been considerably increased by recent donations. The last addition to the collection consists of casts from the Elgin marbles in the British Museum. Further additions will be made soon.

The Museums of Zoölogy and Anthropology

IN RHODE ISLAND HALL

The Jenks Museum of Zoölogy

This Museum is arranged according to the more modern methods of classification, beginning with the lower invertebrates and ending with the mammals. It includes materials not only for general work but for special investigation. There have been placed on exhibition in the gallery, separate from the synoptic collections below, local collections representing the fauna of Rhode Island. Students giving special attention to Zoölogy are allowed to take from the cases such specimens as they may need, the aim always being to make the Museum not an exhibition room only but a place for work.

The Museum of Anthropology

Properly to house and exhibit the rapidly growing stores of anthropological matter, a special hall contiguous to the Museum of Zoology has been fitted up within two years, permitting a synoptic arrangement of the contents and otherwise greatly facilitating study. This work has been done under the superintendence and entirely at the cost of Professor John Whipple Potter Jenks, A. M., who has served so long and faithfully as the Curator of the original Museum. This new Museum contains a great number of rare implements from foreign countries, as well as many once the property of the aboriginal races in our own land. Prehistoric Anthropology is well illustrated by implements of stone, bone, and bronze, with casts, models, and photographs, either collected or purchased in 1889 by Professor A. S. Packard, Ph. D. They represent France, Italy, England and Switzerland, materials from the Lake Dwellings of Switzerland being especially numerous.

Religious Culture

This is deemed to be of the utmost importance. The public duties of every day begin with religious exercises in the University Chapel, at which all first and second year students are required to be present. All students are expected to attend divine worship on Sunday, each one reporting to the President at the beginning of the year what church he will attend. The Young Men's Christian Association has meetings on Wednesday evenings during term time, to which all students are welcome. The Bishop Seabury Association holds a service every Friday afternoon. In addition, each class has its own meeting for prayer and conference on Friday afternoon.

A Bible Class for students, conducted by the President, meets on Sunday mornings at half-past nine, and a number of other classes, instructed by members of the Faculty, meet weekly for the earnest and critical study of the Scriptures.

Physical Culture

This is treated as a very important part of college work. The Lyman Gymnasium is admirably equipped to assist in it. It is provided with a main hall containing all the most useful gymnastic appliances, including a running track. Adjoining are the locker rooms, with capacity for the entire number of students now enrolled. On the first floor is the office of the Director, and a room for anthropometry. On the floor above are two large, well-lighted rooms, one of which is designed for a music room, the other for a billiard room. The latter is unfortunately not yet furnished. In the basement are two bowling alleys, eight rowing machines, the base-ball cage, a sparring room, and a room to be used by the ball teams. A space has been left for a swimming-tank, but no funds are at hand for finishing this.

Upon entering College every student is examined physically, measured, and provided with a chart showing his development and condition. Special exercise based on this examination is prescribed for each, in addition to regular class work. Except during the early fall and late spring, there is in the Gymnasium a regular class drill for each class, one-half hour daily four days each week. In this drill the Freshmen are instructed in the use of Indian clubs, the Sophomores in the use of dumb-bells, the Juniors are taught to use the "single stick," and the Seniors to fence. The remainder of the four hours per week required by the Corporation is devoted to

special exercises on various sorts of apparatus. No student will be excused from gymnasium work except for physical cause. Every effort is made to encourage interest in out-door sports, for it is believed that exercise in the open air is of primary importance. The Director devotes a considerable part of his time, when the season is suitable, to directing out-door athletics of all kinds.

Examinations, Standing, and Honors

TERM EXAMINATIONS

Examinations of all the classes are held at the close of each term, or at the completion of definite portions of work in the several studies. A student cannot be admitted to the examination in any study unless his term standing in that study is at least sixty per cent. of the maximum. If excluded for this reason he is considered delinquent in the study. Also, if a student is examined in a given study and fails to receive a mark of at least sixty per cent., he is considered delinquent in that study, and must prepare himself for a subsequent examination.

Any student who, either from failure at examination or because his term standing is below sixty per cent., is delinquent in three or more studies at the close of the term, is not allowed to continue the studies of his class.

A student delinquent in any study of the First or the Second Term must, at the time appointed by the instructor, and before the middle of the term next succeeding that for which he is deficient, be specially examined. Students delinquent at the close of an academic year must be examined on the Monday or Tuesday immediately preceding the beginning of the next academic year (for 1894, on September 17 and 18). The schedule for these delinquent examinations will be posted in the

Registrar's office on Monday morning, September 17. Candidates for a degree delinquent in the studies of a given year, unless for worthy cause they are specially excused by the Faculty, cannot begin the studies of the next year until they have passed successfully the examinations required.

When a student has been absent from a regularly appointed delinquent examination covering a given course, no instructor is authorized to examine him on such course without a written permit from the Registrar, for which a fee of Two Dollars is charged.

A student delinquent in any study who fails to obtain sixty per cent. on special examination, forfeits his connection with his class and, before he is recommended for a degree, must study the subject again, either with a succeeding class or under an instructor appointed by the Faculty.

REGISTRATION

All students who desire to attend the University during a given term are required to register at the Registrar's office *on or before the first day of such term*. Every undergraduate student registered or re-registered after the first day of any term is charged for such registration or re-registration a fee of Five Dollars, to be remitted only by the President, and only on presentation of a substantial excuse for the lateness or the change.

ATTENDANCE ON COLLEGE EXERCISES

Each student is expected to attend every exercise in the several studies to which he is assigned. When a student is unavoidably prevented from attending his classes, he should immediately report to the officer having charge of excuses. An unexcused tardiness is regarded as an absence. If a student is absent and unexcused he is subject to college discipline. The term-reports sent to the parent or guardian of each student contain the record of all absences,

REPORTS OF PROFICIENCY

A careful record is kept of the proficiency of every student of the University in his several studies. Of each undergraduate student the standing is determined at the close of each term. This is done by so combining his term-standing in each study with the results of the examination in the same, that the term mark shall count for three-fourths of the final result. A report is sent to the parent or guardian of every student, indicating his standing, as arrived at in the manner just indicated, in each of his studies for the term, and announcing his deficiency in any study or studies, if such deficiency exists.

APPOINTMENTS FOR COMMENCEMENT

These are made as follows: Every member of the Senior Class is allowed to present for Commencement an oration or a thesis. From the number of those presented the Professor of Rhetoric, on or before the second Wednesday in April, selects at least one half of both the orations and the theses, and submits them to a committee consisting of the President of the University, the Professor of Rhetoric, and a third member elected each year by the Faculty. This committee select from the orations laid before them such, not exceeding ten in number, as in their judgment have sufficient merit to represent the University with credit at Commencement, regard being had to the oratorical ability of the several writers as determined by their attainments in elocution. The committee select also from the theses such as they deem deserving of particular mention, with reference to the special proficiency shown by the writers in the departments of study which they treat, and to excellence in composition. The number of theses accepted cannot exceed that of the accepted orations. The names of the writers of the theses accepted are printed in the Commencement programme.

SPECIAL HONORS

Opportunity to study for honors is open to members of all classes, but only in connection with courses determined upon by the Faculty. Early in each academic year the Faculty prepares a list of such courses, a copy of which is kept by the Registrar for consultation by the students.

The extra work required in order to secure honors occupies the equivalent of four hours a week during the year, and this whether the course in connection with which the study for honors is carried on extends through two or three terms.

Candidacy for honors is subject to the following conditions:

- 1 No student is allowed to become a candidate who is delinquent in any study or whose average mark in all the studies for the year preceding his application for candidacy has been less than 8.5, and no student is allowed to continue a candidate if at the end of any term his mark in the study in connection with which the honor course is pursued has fallen below 9, or his average mark in all his studies for that term, below 8.5.
- 2 No student can become a candidate who is taking two or more extra studies. No student who is taking a single extra study can be a candidate for more than one honor. No student can be a candidate for more than two honors at the same time. *Provided, however,* that any student whose average standing in all his studies for the year preceding his application for enrolment as a candidate has been 9.5 or over may become a candidate for three honors at the same time; but the candidacy for one of the three honors ceases if during any term the candidate's average standing in all his studies falls below 9.5.
- 3 At the end of any academic year permission may be granted a student to study for one honor during the summer vacation; but this permission can not be granted to students who are already candidates for one or more honors, unless the work for such honor or honors be completed by Commencement Day.
- 4 By leave of the Faculty, a student may at any time withdraw from candidacy for honors.

Application for enrolment as a candidate for honors must be made to the Registrar, on a blank furnished by him for that purpose. Before the application will be received, the applicant must obtain the approval of the instructor in charge of the course specified, attested by his signature on the application blank. In the case of courses beginning the first term, application must be made on or before October 20th; in the case of courses beginning the second term, on or before January 20th; and in case of courses beginning the third term, on or before May 1st.

When a class graduates, the names of those of its members who have obtained honors during their college course, together with the years and subjects in which such honors have been awarded, are printed on the Commencement programme.

Graduate Degrees

The degree of **Master of Arts** is granted under the following conditions: The candidate, already a Bachelor of Arts or of Philosophy, must have completed a thorough course, approved by the Faculty and the Board of Fellows, of liberal, graduate study, sufficient in amount to constitute a fifth year of college work, and have passed satisfactory examinations thereupon. By continuous residence at the University, candidates fulfilling the above conditions may receive the degree in one year from graduation; but in cases of partial or entire non-residence the degree will not be conferred under two years from graduation. Candidates for this degree registered as *in absentia* who yet desire some instruction at the University may receive such. They are required to register at the Registrar's office specially for the course or courses desired, fees being charged accordingly. See below, paragraph 6, under "Expenses," page 169.

The degree of **Doctor of Philosophy** is conferred under the following conditions: The candidate must be a Bachelor of Arts or of Philosophy. He must have resided at the University at least two years after graduation, pursuing a systematic course of study approved by the Faculty and Board of Fellows, and sustaining satisfactory examinations on the same, concluding his course with a thesis giving evidence of high scholarship and of special excellence in the studies pursued. To receive this degree, one must further possess a good knowledge of Latin, French, and German, unless for special reasons excused in respect to one or more of these languages.

Any person wishing to become a candidate for either of the above degrees should communicate with the Chairman of the Committee on Advanced Degrees [see page 18], naming the departments in which he desires to study. Two courses at least are usually required, a Major and a Minor. The communication is laid before the head of the departments to which the desired courses relate, who, in correspondence with the applicant, arrange the work in detail.

A student desiring to receive, at any given Commencement, the degree of Master of Arts after one year's residence, must announce his wish to the Chairman of the Committee, in writing, on or before the 15th of October of the year preceding that Commencement, and must name in his application the department or departments of study in which he desires to be examined.

Every student, also, who desires to receive, at any given Commencement, the degree of Master of Arts after two or more years of non-resident study, must make similar announcement on or before the 15th of October of the second year preceding that Commencement.

A student desiring to receive, at any given Commencement, the degree of Doctor of Philosophy, must make similar announcement on or before the 15th of October of the second year preceding that Commencement.

A year of work for the degree of Master of Arts, unless performed in residence, cannot be counted as a year of work for the higher degree; and it is not necessarily so counted even when performed in residence.

The examinations of all candidates desiring to receive the degree of Master of Arts or of Doctor of Philosophy at Commencement in any given year, must be completed before the first of June in that year. The dissertations of candidates for the degree of Doctor of Philosophy must be presented to the Faculty, in type-written copy or in print, before the first of May in that year. The approval of such dissertation by the Faculty is essential to the attainment of the degree.

For the University Dues connected with graduate study, see below, under "Expenses," pages 168, 169.

Expenses

REGULAR UNIVERSITY DUES

The yearly dues to the University Treasury are as follows:

	LOWEST	HIGHEST
Tuition,	\$105.00	\$105.00
Rent, single room [see page 171],	15.00	87.00
Rent, suite [see page 171],	90.00	175.00
General incidentals for all students,	45.00	45.00
Extra incidentals for residents in College,	30.00	44.00

The general incidental expenses are for the printing of programmes, examination papers, and the like, the use of the University Library and Gymnasium, heat for these and also for the halls and recitation rooms, and the wages of servants to care for the same. The extra incidental expenses are for heat and servants' hire in the dormitories. The charge for incidentals in both kinds is fixed as nearly as possible at the actual amount of these expenses on an average of several years.

Each room or suite in the dormitories has its gas meter, and occupants are charged for the actual amount of gas which they consume.

Every undergraduate candidate for a degree pays, upon admission to the University, a matriculation fee of \$5.00.

Every member of the Senior Class pays upon graduation a fee of \$8.00 for his diploma and other extra expenses connected with graduation.

SPECIAL UNIVERSITY DUES

1, *In Chemistry*

Candidates for a University degree who take Course 1, 2, or 3 in Chemistry are charged as follows: for Course 1, \$1.00; Course 2, \$2.00; Course 3, \$3.00. They also have a special charge for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed \$2.00 per term.

Special students who take no University studies except Courses 1, 2, 3, in Chemistry, pay for these \$10.00 per term. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed \$2.00 per term.

Students who are candidates for University degrees and take advanced courses in Analytical Chemistry, are charged per term, in addition to the Regular University Dues, the sum of \$10.00 for a three-hour course in the Laboratory, and \$20.00 for a six-hour course in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed \$3.00 per term.

Special students who take no University studies except advanced courses in Analytical Chemistry are charged varying sums according to the nature of the courses taken. In an individual case the charge is at the rate of \$4.00 per term for one hour per week of prescribed attendance in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed \$5.00 per term.

Special students engaging places in the Laboratory must each pay for a full term. No deductions are made on account of absence.

2, *In Physics*

Candidates for a degree who study in the Physical Laboratory pay, in addition to the Regular University Dues, a fee of \$5.00 per term.

Candidates for a degree who do shopwork pay, in addition to the Regular University Dues, a fee of \$10.00 per term.

Special students who take no studies except in the Workshop pay at the rate of \$4.00 a term for each hour per week of prescribed attendance in the shop.

3, *In Botany*

Students who take Courses 1, 2, 3 in Botany pay, in addition to the Regular University Dues, a fee of \$1.00 per term, to cover the cost of illustrative material.

Students taking Courses 4, 5, 6 pay, in addition to the Regular Dues, a fee of \$2.00 per term for the same purpose.

4. *In Other Studies*

Special students in the University, except as just specified under Chemistry, Physics, and Botany, pay, as a rule, full tuition and incidentals, but the charge is proportionally less when students are admitted to courses of less than fifteen hours of class attendance a week. Special students occupying rooms of course pay the same rent and special incidentals as candidates for degrees.

5, *For Women's Examinations*

For each full set of examinations, viz., entrance examinations or examinations on any full term's work, each woman candidate pays \$10.00. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the

fee is 75 cents per weekly hour's work. Thus, the examination upon a course which requires three hours in class-room weekly costs \$2.25; one upon a course of six hours, \$4.50, etc.

6, *For Graduate Students**

A, A candidate for the degree of Doctor of Philosophy pays the University as follows:

On registration and at the beginning of each Term thereafter for two years, \$50.00.

After such a candidate has paid \$300.00 in tuition he may, if it is necessary to the attainment of his degree, attend the University two more years without additional charge for tuition.

Examination fee, which must be paid before the final examination, \$25.00

For laboratory expenses, if any, in addition to these sums, see E, below.

B, A candidate for the degree of Master of Arts in residence pays as follows:

On registration and at the beginning of each Term thereafter for one year, \$50.00.

Such a candidate who, without remitting his studies, becomes a candidate for the degree of Doctor of Philosophy, in case his work for the Mastership is permitted to count toward the higher degree (see page 165) is credited with whatever tuition, \$50.00, \$100.00, or \$150.00, as the case may be, he has already paid. No such credit, however, is allowed for an A. M. examination fee.

After a candidate for the degree of Master of Arts in residence has paid \$150.00 in tuition he may, if it is necessary to the attainment of his degree, attend the University another year without additional charge for tuition.

Examination fee, which must be paid before the final examination, \$15.00.

* With the exception of D, whose provisions take effect at once, this schedule holds only for candidates registered after January 1, 1894. Those already registered pay, except as provided under D, according to the schedule printed in the Catalogue for 1892-93, pages 157, 158.

C, A candidate for the degree of Master of Arts *in absentia* pays as follows :

Registration fee, \$25.00.

On registration and at the beginning of each Term thereafter for two years, \$10.00.

After such a candidate has paid \$60.00 in tuition he may, if it is necessary to the attainment of his degree, continue his candidacy and studies two more years without additional charge for tuition.

Examination fee, which must be paid before the final examination, \$15.00.

D, A candidate for the degree of Master of Arts *in absentia* who nevertheless wishes some instruction at the University, is required to register at the Registrar's office for the course or courses desired, and is charged therefor at the following rates :

For each course in any department of the University counting one hour a week, \$5.00 per term.

For each such course counting two or three hours a week, \$10.00 per term.

The \$10.00 term fee under C avails, so far as it goes, to offset these charges, cancelling them, that is, unless they exceed \$10.00.

For laboratory expenses, if any, in addition to the above, see E, below.

E, A candidate receiving part or all of his instruction in a laboratory or laboratories pays, in addition to the charges noted under A, B, or D, as the case may be, the following sums :

For each course in any laboratory other than the Chemical Laboratory counting three hours a week, \$5.00 per term.

For each such course counting six hours a week, \$10.00 per term.

For each course in the Chemical Laboratory counting three hours a week, \$10.00 per term.

For each such course counting six hours a week, \$20.00 per term.

In addition to these laboratory charges, each candidate pays at cost for his individual breakage.

It is, however, provided that no candidate who pays in any term the regular charge of \$50.00 under A or B, or of \$10.00 under C, shall be required to pay in laboratory charges that term, aside from breakage, more than \$35.00.

F, A graduate student not a candidate for a degree is charged according to the rates specified under D and E, above.

GENERAL EXPENSES

The total expenses of students per year vary, of course, according to their habits, tastes, and means, some students expending more than double, even more than treble the amounts of others.

Subjoined are figures denoting the actual yearly expenses, including dues to the University, of several recent students, selected at random. In the case of one of these \$250 paid for everything but board; in that of another \$185 did the same. Two gentlemen kept their total expenditure, including board and all else save clothing, down to the low sum of \$265 apiece. Two others needed for this \$425 each, one year; \$435 and \$450 the next. Another required \$412.87, another \$475. Still another spent \$510 in his Freshman year, \$466 in his Sophomore year, both sums, however including unusual amounts for traveling. So far as ascertained, the largest outlay for college expenses in recent years is reported by a member of the Class of 1890, whose Freshman year cost him \$890, his Sophomore year \$730, his Junior year \$725.

Board is not furnished at the University; but a list, kept by the Steward, of eligible families in the city where board can be obtained, is always accessible to students.

The usual cost of board is at present from \$3.00 to \$5.00 per week. A majority of the students do not pay over \$3.50, and good board can be obtained for \$3.00. Board with furnished rooms, in private families, may be had at from \$5.00 to \$10.00 per week.

THE BROWN UNIVERSITY COÖPERATIVE REFECTORY, an organization constituted and controlled by the students of the University, furnishes its shareholders with truly excellent board exactly at cost, viz., at present at \$3.60 per week. The shares number 120 and their par value is \$10 each. The Refectory is able to accommodate a few students who own no stock, such paying for board \$4.00 per week. A number of shares in the Refectory are for sale at the end of each collegiate year, usually at prices not much above their par value.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so, by giving private instruction, teaching in evening schools, and other occupations not inconsistent with their college duties.

Term bills are due, and must be paid, or their payment secured, on their presentation at the beginning of each term.

PRICES OF ROOMS AND SUITES

There are in the dormitories one hundred and twenty-two single rooms and twenty-three suites. Seventeen of the suites have three rooms each, two sleeping rooms and a study, and six of them two rooms each. All the dormitories are supplied with steam heat, students paying therefor according to the size and number of their rooms. The highest price (per suite) is \$20, the lowest (single rooms), \$10. The charge for service is \$15 for each single room; for suites \$18 to \$24, according to the size and number of the rooms.

The following conspectus shows the rent and location of each room in the University. When, without necessity for so doing, three tenants regularly occupy a room or a suite intended for two, fifty per cent. is added to the rent and other charges for the room or suite.

HOPE COLLEGE.						UNIVERSITY HALL.					
No.	Division	Floor	Windows Face	Bedrooms	Price	No.	Division	Floor	Windows Face	Bedrooms	Price
1.	South.	1	E. & S.	There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms.	\$75	10.	South.	2	S. & W.	2	\$175
2.	"	"	W. & S.		81	12.	"	"	W.	None.	70
3.	"	"	W.		75	13.	"	"	W.	"	70
4.	"	"	E.		72	16.	"	"	E.	"	55
5.	"	2	E. & S.		75	17.	"	"	E.	"	60
6.	"	"	W. & S.		81	18.	"	"	E. & S.	"	75
7.	"	"	W.		75	19.	"	3	S. & W.	2 single	160
8.	"	"	E.		72	21.	"	"	W.	None.	60
9.	"	3	E. & S.		66	22.	"	"	W.	"	60
10.	"	"	W. & S.		72	25.	"	"	E.	"	55
11.	"	"	W.		66	26.	"	"	E.	"	55
12.	"	"	E.		69	27.	"	"	E. & S.	"	75
13.	"	4	E. & S.		60	28.	"	4	S. & W.	2	140
14.	"	"	W. & S.		66	30.	"	"	W.	None.	55
15.	"	"	W.		60	31.	"	"	W.	"	55
16.	"	"	E.		57	32.	"	"	E.	"	50
17.	Middle.	1	E.		72	33.	"	"	E.	"	50
18.	"	"	W.		75	34.	"	"	E. & S.	"	75
19.	"	"	W.		75	36.	North.	1	W.	"	75
20.	"	"	E.		72	40.	"	2	W.	"	70
21.	"	2	E.		72	41.	"	"	W.	"	70
22.	"	"	W.		75	43.	"	"	W. & N.	2	165
23.	"	"	W.		75	44.	"	"	E. & N.	None.	75
24.	"	"	E.		72	45.	"	"	E.	"	60
25.	"	3	E.		60	46.	"	"	E.	"	55
26.	"	"	W.		66	47.	"	3	W.	"	60
27.	"	"	W.		66	48.	"	"	W.	"	60
28.	"	"	E.		60	50.	"	"	W. & N.	2	155
29.	"	4	E.		57	51.	"	"	E. & N.	None.	70
30.	"	"	W.		60	52.	"	"	E.	"	55
31.	"	"	W.		60	53.	"	"	E.	"	55
32.	"	"	E.		57	54.	"	4	W.	"	55
33.	North.	1	E.		72	55.	"	"	W.	"	55
34.	"	"	W.		75	57.	"	"	W. & N.	2	130
35.	"	"	W.		87	58.	"	"	E. & N.	None.	70
36.	"	"	E.		87	59.	"	"	E.	"	50
37.	"	2	E.		72	60.	"	"	E.	"	50
38.	"	"	W.		75						
39.	"	"	E. & N.		87						
40.	"	"	E. & N.		87						
41.	"	3	W.		60						
42.	"	"	W.		66						
43.	"	"	W. N.		75						
44.	"	"	E. N.		75						
45.	"	4	E.		57						
46.	"	"	W.		60						
47.	"	"	W. & N.		66						
48.	"	"	E. & N.		66						
						21 BROWN STREET.					
						4.	.....	2	S. W.	One.	175
						5.	.....	"	E. S.	None.	75
						6.	.....	"	W. N.	"	65
						10.	.....	3	E. S.	"	55
						11.	.....	"	S. W.	"	65
						12.	.....	"	W. N.	"	55
						13.	.....	"	W. N.	"	55

SLATER HALL.

No.	Division	Floor	Windows Face	Bedrooms	Price
1.	South..	1	E. S. & W.	2	\$175
2.	"	"	E. & W.	1	125
3.	"	2	E. S. & W.	2	175
4.	"	"	E. & W.	2	160
5.	"	3	E. S. & W.	2	165
6.	"	"	E. & W.	2	150
7.	"	4	E. S. & W.	1	100
8.	"	"	W.	None.	70
9.	"	"	W.	"	45
10.	North..	1	E. W.	2	155
11.	"	"	E. W. & N.	2	155
12.	"	2	E. W.	2	155
13.	"	"	W.	None.	45
14.	"	"	W. N. E.	2	160
15.	"	3	W. E.	2	150
16.	"	"	W.	None.	40
17.	"	"	W. N. E.	2	155
18.	"	4	E.	None.	45
19.	"	"	W.	"	70
20.	"	"	W. N. E.	1	90

GEORGE STREET HOUSE.

No.	Division	Floor	Windows Face	Bedrooms	Price
1.	1	E. S.	None.	\$60
2.	"	S. W.	"	60
3.	"	W.	"	50
4.	"	E.	"	60
5.	"	W.	"	25
6.	TRUNK ROOM.			
7.	2	E. S.	None.	65
8.	"	S. W.	"	65
9.	"	E.	"	45
10.	"	W.	"	65
11.	"	E.	"	45
12.	"	W. N.	"	50
13.	3	W.	"	15
14.	"	W.	"	15
15.	"	E.	"	25
16.	"	N.	"	20

27 & 29 BENEVOLENT ST.

No.	Division	Floor	Windows Face	Remarks	Price
1.	No. 27..	1	N. & W.	The rooms in this building are furnished, and the prices given include gas and washing of linen.	\$125
2.	West ..	"	W.		100
3.	"	"	W.		50
4.	"	2	N. & W.		125
5.	"	"	S. & W.		125
6.	"	"	W.		25
7.	"	"	S. & W.		60
8.	"	3	N. & W.		100
9.	"	"	S. & W.		105
10.	"	"	W.		50
11.	"	"	S. & W.		75
12.	No. 29..	1	N. & E.		125
13.	East ..	"	S. & E.		100
14.	"	"	E.		50
15.	"	2	N. & E.		125
16.	"	"	S. & E.		125
17.	"	"	E.		Srv 75
18.	"	"	S. & E.		75
19.	"	3	N.		75
20.	"	"	N. & E.		110
21.	"	"	S. & E.		105
22.	"	"	E.		40
23.	"	"	S.		40

DIRECTORY TO THE DORMITORIES.

Slater Hall, South Division, Rooms, 1 to 9.

Slater Hall, North Division, Rooms, 10 to 20.

University Hall, South Division, Rooms, 1 to 34.

University Hall, North Division Rooms, 35 to 61.

Hope College, South Division, Rooms, 1 to 16.

Hope College, Middle Division, Rooms, 17 to 32.

Hope College, North Division, Rooms, 33 to 48.

96 George Street, Rooms, 1 to 16.

21 Brown Street, Rooms, 4 to 13.

27 & 29 Benevolent Street, Rooms, 1 to 23.

Fellowships

THE FELLOWSHIP OF THE GRAND ARMY OF THE REPUBLIC

In 1891 the Grand Army of the Republic, Department of Rhode Island, donated to Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the the Republic Fellowship Fund. Only the income of the fund can be used. This income goes to aid alumni of Brown University, of acknowledged excellence in scholarship and character, to pursue advanced liberal study; the aim being that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of this Fellowship, when a successor may be appointed for the remainder of the year.

Holders of this Fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows, but the descendants of Union Veterans of the Civil War of 1861-65 are always to be preferred when the other qualifications of candidates are equal. No considerations touching the political or religious preferences of candidates can ever enter into these appointments.

Appointments to this Fellowship are regularly made for one year, but incumbents of special diligence or ability may be re-appointed. The President is authorized to make for the reception and use of the income from this fund such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper.

Applications for the Fellowship must be in the hands of the President on or before May 15th each year.

This Fellowship for the year 1893-94 has been conferred on

ARTHUR NEWTON LEONARD, A. M.

THE PHILADELPHIA ALUMNI FELLOWSHIP

This is another fund, to be ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose is to assist graduate students of special ability in pursuing advanced studies at the University.

Scholarships

The University has about one hundred scholarships. Sixty-four of them are of one thousand dollars each. The income of these is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum marking.* The one-thousand dollar scholarships are as follows, each, unless otherwise indicated, bearing the name of its founder:

- | | |
|--|---|
| <i>The eleven Nicholas Brown Scholarships.</i> | <i>The Clark Scholarship, also founded by the Messrs. Ives.</i> |
| <i>The four University Scholarships.</i> | <i>The Albert Day Scholarship.</i> |
| <i>The President's (Sears) Scholarship.</i> | <i>The Henry P. Kent Scholarship.</i> |
| <i>The six Alva Woods Scholarships.</i> | <i>The Romeo Elton Scholarship.</i> |
| <i>The James H. Duncan Scholarship.</i> | <i>The five Annie E. Waters Scholarships.</i> |
| <i>The Isaac Davis Scholarship.</i> | <i>The L. Fairbrother Scholarship, founded by Mrs. L. Fairbrother.</i> |
| <i>The Arnold Whipple Scholarship.</i> | <i>The George Lawton Scholarship.</i> |
| founded by Mrs. Arnold Whipple. | <i>The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.</i> |
| <i>The Ephraim Wheaton Scholarship, founded by James Wheaton.</i> | <i>The James T. Smith Scholarship.</i> |
| <i>The Joseph Brown Scholarship, founded by Mrs. E. B. Rogers.</i> | <i>The two S. S. Bradford Scholarships.</i> |
| <i>The Gardner Colby Scholarship.</i> | <i>The Frances R. Arnold Scholarship.</i> |
| <i>The Crocker Scholarship, founded by Robert H. and Thomas P. Ives, trustees.</i> | <i>The Cornelia E. Green Scholarship.</i> |

- The George K. and H. A. Pevear Scholarship.*
- The Joseph C. Hartshorn Scholarship I.*
- The Rogers High School Scholarship*, found by William Sanford Rogers.
- The James Wheaton Scholarship.*
- The Charles Thurber Scholarship.*
- The Pardon Miller Scholarship*, founded by Mrs. Ann E. Miller.
- The Hezekiah S. Chase Scholarship.*
- The William Bucknell Scholarship.*
- The Austin Merrick Scholarship*, founded by Mrs. Olive E. Merrick.
- The Horatio N. Slater Scholarship.*
- The Earl P. Mason Scholarship.*
- The Newport Scholarship*, founded by William Sanford Rogers.
- The Alexis Caswell Scholarship.*
- The three (Henry) Jackson Scholarships.*
- The Mumford Scholarship*, founded by Mrs. Louisa D. Mumford
- The Henry Clifford Knight Scholarship*, founded by Miss Amelia S. Knight, in memory of her brother, a member of the Class of 1875.
- The Thurston Scholarship*, founded by Hon. Benjamin F. Thurston.
- The Rufus Babcock Scholarship*, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, Rev. Rufus Babcock D. D., of the Class of 1821.
- The James Fletcher Blackinton Scholarship*, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the Class of 1847.
- The five William A. White Scholarships*, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the Class of 1857.

Besides the above scholarships there are others the assignment of which is made subject to special provisions. These are as follows :

The Bartlett Scholarship, of four thousand dollars, founded by MRS. ELIZABETH SLATER BARTLETT, the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aims and by character and scholarship, of rising to distinction and usefulness."

The Glover Scholarships, of five thousand dollars, founded by HENRY R. GLOVER, "in memory of his father, SAMUEL GLOVER, a graduate of the College of the Class of 1808, and of his brother, SAMUEL GLOVER JR., of the Class of 1839." Assignment is made upon the basis of character and attainments.

The Scholarship of the Class of 1838, of thirty-eight hundred dollars, founded by members of THE CLASS OF 1838, and also assigned upon the basis of character and scholarship.

The Joseph Charles Hartshorn Scholarship II, of two thousand dollars, founded by the gentleman whose name it bears.

The George J. Sherman Scholarships I and II, of one thousand dollars each, founded by the gentleman whose name they bear.

The Scholarships of the Department of Agriculture and the Mechanic Arts. By resolution of the General Assembly of the STATE OF RHODE ISLAND, the national grant "for the benefit of Agriculture and the Mechanic Arts," was given to Brown University; and the fund of fifty thousand dollars which has accrued from this grant is, by agreement on the part of the University, devoted to the education of scholars, each at the rate of seventy-five dollars per annum, to the extent of the entire annual income. Appointments to these scholarships are made, on the nomination of the General Assembly, by the Governor and the Secretary of State in conjunction with the President of the University.

The George Ide Chace Scholarship, of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior Class needing the same, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character."

The Abby Wheaton Chace Scholarship, of four thousand dollars, also founded by Professor George Ide Chace, the income to be assigned yearly by the Faculty to some member of the Junior Class needing the same. Here, too, the recipient must be characterized by "marked ability, exemplary industry, generous aspirations, and irreproachable character."

If in either the Senior or the Junior Class there chance to be no person answering the above descriptions, the proceeds of the scholarship for that year must, under the proper direction,

be appropriated to the purchase of books for the Library of the University.

For the year 1893-94 the George Ide Chace Scholarship was awarded to

WILLIAM WASHBURN MOSS

and the Abby Wheaton Chace Scholarship to

FRED DAVIS ALDRICH.

AID FUND

This is a fund of several thousand dollars, the income of which is applied, either by loan or by gift, to the assistance of deserving young men of limited means.

THE GEORGE IDE CHACE FREE BED IN THE RHODE ISLAND HOSPITAL

This was established and is to be permanently maintained by a payment to the Hospital of Four Thousand Dollars by the late Professor George Ide Chace. This Foundation gives to the President of the University "the right to nominate and send to said Hospital a patient, being a proper subject for treatment in said Hospital, according to the rules of the Institution, to occupy a bed in said Hospital, and to receive the usual care, and medical, surgical, and other attendance, and medicines and board, free of charge."

Premiums

I, FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums. These are derived from the income of a fund presented to the University by the REV. FRANCIS WAYLAND, D. D., while President. They are awarded each year to those members of the Freshman Class who are found upon special examination to have attained the highest excellence in the studies required for admission to College in Greek, Latin and French. For the highest attainment in each of these several studies a first premium of twenty dollars is awarded; for the next highest a second premium of ten dollars.

The examinations for these premiums deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Great importance is attached to the pupil's familiarity with the subject-matter of the works read and to his ability to translate with accuracy and facility into clear, appropriate, and idiomatic English.

The most recent award (1893) of these premiums was as follows:

GREEK

The First Premium to GREGORY DEXTER WALCOTT, instructed by Principal D. W. Abercrombie, A. M., in the Worcester Academy.

The Second Premium to JAMES TUCKER JR., instructed by William T. Peck, A. M., in the Providence High School.

LATIN

The First Premium to JAMES TUCKER JR., instructed by William T. Peck, A. M., in the Providence High School.

The Second Premium to GEORGE THURSTON SPICER, instructed by William T. Peck, A. M., in the Providence High School.

FRENCH

The First Premium to JAMES TUCKER JR., instructed by William T. Peck, A. M., in the Providence High School.

The Second Premium to GEORGE THURSTON SPICER, instructed by William T. Peck, A. M., in the Providence High School.

MATHEMATICS

The Hartshorn Premiums. These are derived from the income of a fund of one thousand dollars, presented to the University by JOSEPH C. HARTSHORN, A. M., of the Class of 1841. The income furnishes three Premiums.

These are awarded to those members of the Freshman Class who are found, upon examination, to excel in the preparatory mathematical studies.

The last award (1893) of these premiums was as follows :

The First Premium to GEORGE THURSTON SPICER, prepared in the Providence High School.

The Second Premium to FRANK ELBERT WATSON, prepared in the Springfield, Mass., High School.

The Third Premium to WILSON WARD WORMELLE, prepared in the Boston Latin School.

II, FOR EXCELLENCE IN COLLEGE STUDIES

Special Freshman Prizes for 1893. A liberal lady friend of the University offered in 1893 two special prizes, a first and a second, thirty dollars and twenty dollars respectively, for the best and the second best essay upon an assigned theme. These prizes were awarded as follows :

The First to GARDNER KIRK HUDSON.

The Second to BURTON SANDERSON FLAGG.

The Carpenter Prizes for Elocution. These are: a First Prize of sixty dollars; a Second Prize of thirty-six dollars; a Third Prize of twenty-four dollars.

They are derived from the income of a fund established by THOMAS CARPENTER, and are awarded annually to the three members of the Sophomore Class to whom are assigned, respectively, the first, the second, and the third rank of excel-

lence in elocution. The assignment is made by a committee appointed for the purpose, and after trial at a public exhibition given on the Monday evening before Commencement.

The competitors must be members of the Sophomore Class. They may declaim pieces in either prose or verse, selected from English authors. These selections must be approved by the Instructor in Elocution. Competitors are to enter their names with this Instructor not later than the tenth day before the exhibition.

The Committee of Award consists of five members, and is formed as follows: the Professor or the Instructor in Elocution, who is the chairman; two persons elected by the Corporation; also two elected by the Sophomore Class during the first term of the year; it being understood that no one who is or has been a member of the class is eligible.

The Committee for 1893 awarded the prizes as follows:

The First, to HARRY CLIFFORD WHIPPLE.

The Second, to WALTER GUYTON CADY.

The Third, to WILLIAM McDONALD JR.

The Hicks Prizes for Excellence in Debate. These are two, derived from the income of a fund presented to the University by the HON. RATCLIFFE HICKS, of the Class of 1864. They are annually awarded to the two members of the Junior Class who, in the judgment of a carefully selected committee, display the greatest ability in debate. The contest is held on the evening before Class Day.

For the year 1893 the prizes were awarded in equal parts to

ALBERT JOSEPH POPE

and

CHARLES SPAULDING ALDRICH.

The Carpenter Premiums. These are two, of sixty dollars each, derived from the income of a fund established by THOMAS CARPENTER and LYDIA CARPENTER.

These premiums are assigned at the *end of the Senior year*, to the two members of the Senior Class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life: ability, character, and attainment."

For the year 1892-93 the Carpenter Premiums were awarded to

LESLIE ELIAS LEARNED

and

ALFRED REYNOLDS WIGHTMAN.

The Howell Premium. This fund, amounting to one thousand dollars, was presented to the University by the late GAMALIEL LYMAN DWIGHT. The income is given at the close of the second term of the Senior year, to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for this Premium, a student must select at least one of the elective studies in Pure or Applied Mathematics offered each term from the Freshman year to the end of the second term in the Senior year.

For the year ending 1892-93 this premium was awarded to

HERBERT GOULD BEEDE.

The Dunn Premium. A fund amounting to somewhat over eight hundred dollars was presented to the University by pupils and friends of the late PROFESSOR ROBINSON POTTER DUNN, D. D., the income to be given, at the *end of the Junior year*, to the student having the highest standing in rhetorical studies, "rhetorical studies" meaning here those in charge of the Department of Rhetoric and Oratory. The nomination for this Premium is made by the gentlemen instructing in this Department, and has regard to the number of studies which competitors have taken, as well as to the rank which they have attained therein.

For the year 1892-93 this premium was awarded in equal parts to

WILLIAM WASHBURN MOSS

and

HAROLD DEXTER HAZELTINE.

The Class of 1873 Prize. A fund amounting to five hundred dollars was presented to the University by THE CLASS of 1873, on the condition that its income should be used as a prize for an Essay. The prize is annually offered for competition to members of the Senior Class.

On Commencement Day, June 28, 1893, the President announced the award of this prize to

LESLIE ELIAS LEARNED.

The Foster Premium in Greek. This premium is derived from the income of a fund of three thousand dollars bequeathed to the University by the late HON. LA FAYETTE SABINE FOSTER, LL. D., of the Class of 1828.

In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's Iliad or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior Class, will be held early in May, 1894. Candidates will be examined in the above-named books of the Iliad.

On Commencement Day, June 28, 1893, the President announced the award of this prize to

HORACE EDGAR JACOBS.

The Lucius Lyon Premiums in Latin. These are derived from the income of a fund of five thousand dollars presented to the University by Mrs. Caroline L. Lyon,

in memory of her husband, Lucius Lyon, of the Class of 1844. Five-tenths of the income each year form the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded only as the result of a special examination held during the last term of the Senior year, and only for real merit. The examination may relate to (1) the Latin Language, (2) Roman Literature, (3) Roman History, or partly to one of these subjects and partly to another, or both the others. The President of the University and the Head of the Latin Department prescribe for admission to the examination such conditions as in their judgment will secure the best results.

The Senior Prizes in Oratory. Two prizes, of Sixty Dollars and Forty Dollars respectively, were in 1893 offered for the best and the second best of the orations pronounced at Commencement by members of the Graduating Class.

These prizes were awarded as follows:

The First to BEN WAYLAND JOHNSON.

The Second to LESLIE ELIAS LEARNED.

Special Honors in the Class of 1893

FOR THE SOPHOMORE YEAR

HENRY WARD BEECHER ARNOLD,	Latin.
WILLIAM BURDICK,	German, Latin.
HERBERT ERNEST DAY,	German.
ORIN PARKER DURKEE,	French.
IRVING LYSANDER FOSTER,	German, French.
FREDERIC PIERPONT LADD,	French.
LESLIE ELIAS LEARNED,	French.
FRANK GRANT LEWIS,	German.
ALEXANDER MEIKLEJOHN,	French.
CHARLES APPLETON POWERS,	German.
WALTER SCOTT REYNOLDS,	German, Latin.
DANIEL CORY SNOW,	Greek.
ALFRED REYNOLDS WIGHTMAN,	German, Latin.

FOR THE JUNIOR YEAR

WILLIAM BURDICK,	German.
IRVING LYSANDER FOSTER,	German.
DANIEL HOWARD,	German.
FREDERIC PIERPONT LADD,	Latin.
LESLIE ELIAS LEARNED,	German.
CHARLES HOWARD PHELPS,	Mathematics.
CHARLES MARSHALL POOR,	German.

FOR THE SENIOR YEAR

ARTHUR TRAIN BELKNAP,	English.
HERBERT ERNEST DAY,	English.
EDWIN BAILEY DOLAN,	German.
IRVING LYSANDER FOSTER,	German.
EDGAR MANN JOHNSON,	German.
FREDERIC PIERPONT LADD,	French.
CHARLES HOWARD PHELPS,	Mathematics.
CHARLES APPLETON POWERS,	German.
FRANK ARTHUR UPDIKE,	Greek.

Degrees Conferred in 1893

DEGREES IN COURSE

THE DEGREE OF BACHELOR OF ARTS

ON

HENRY WARD BEECHER ARNOLD,	ELLIOTT WOODBURY LAMSON,
HERBERT GOULD BEEDE,	LESLIE ELIAS LEARNED,
ARTHUR TRAIN BELKNAP,	FRANK GRANT LEWIS,
ROBERT MARSHALL BROWN,	ARTHUR JOSEPH LLEWELLYN,
WILLIAM JUDSON BROWN,	ARCHIBALD CLAFLIN MATTESON,
LEWIS JUDSON BULLARD,	CHARLES HERBERT McLANE,
WILLIAM BURDICK,	ALEXANDER MEIKLEJOHN,
EDWARD NORTON CASEY,	WENDELL AXTELL MOWRY,
JOHN LAERTES CASEY,	EDWIN BARNES NIVER,
ARNOLD BUFFUM CHACE JR.,	WINTHROP JOHN VANLEUVEN OS-
SETH HOWARD CHACE,	TERHOUT,
WILLIAM EVERETT CHALMERS,	CHARLES HOWARD PHELPS,
ROBERT CUSHMAN,	CHARLES MARSHALL POOR,
EDWIN BAILEY DOLAN,	CHARLES APPLETON POWERS,
HARRY ST. JOHN FILMER,	WALTER SCOTT REYNOLDS,
JOHN JAMES FITZGERALD,	HERBERT AUGUSTUS RICHARDS JR.,
IRVING LYSANDER FOSTER,	THOMAS HARWOOD ROTHWELL,
ALBERT KNIGHT GERALD,	LUCIAN SHARPE JR.,
FREDERIC POOLE GORHAM,	WALTER EDWARD SMITH,
DANIEL HOWARD,	DANIEL CORY SNOW,
HORACE EDGAR JACOBS,	ELLIOTT FRANCIS STUDLEY,
BEN WAYLAND JOHNSON,	EDWARD ANTHONY THURSTON,
EDGAR MANN JOHNSON,	CARL VERNON TOWER,
WILLIAM DAWSON JOHNSTON,	FRANK ARTHUR UPDIKE,
JOHN DAVIS EDMANDS JONES,	JOSEPH WALTHER,
FREDERIC PIERPONT LADD,	ALFRED REYNOLDS WIGHTMAN.

THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

EARL CHAPMAN ARNOLD,	STEPHEN ALLEN HOPKINS,
HENRY AMES BARKER,	WILLIAM HENRY MAGILL,
HERBERT ERNEST DAY,	WILLIAM STEWART REOCH,
ORIN PARKER DURKEE,	EDWARD HENRY WEEKS.

THE DEGREE OF CIVIL ENGINEER

ON

HERBERT LUTHER DUNN, B. P.

THE DEGREE OF MASTER OF ARTS

in connection with their respective classes

ON

CHARLES PEMBERTON DEANE, Class of 1867,

WILLIAM HARRIS, Class of 1883.

THE DEGREE OF MASTER OF ARTS

after examination

ON

LOUISE PROSSER BATES, A. B., ARTHUR PLINY JOHNSON, A. B.,
MARSHALL STEWART BROWN, WILLIAM CHAUNCY LANGDON JR.
B. P., A. B.,
LUCIA MARIA CLAPP, B. S., ARTHUR NEWTON LEONARD, A. B.,
JAMES QUAYLE DEALEY, A. B., HENRY MORGAN STONE, B. P.,
WILLIAM HOLDEN EDDY, A. B., RALPH WINFRED TOWER, A. B.,
GEORGE HOOPER FERRIS, A. B., HERBERT EUGENE WALTER, A. B.

THE DEGREE OF DOCTOR OF PHILOSOPHY

ON

ADRIAN SCOTT, M. D., A. M.,

after residence, examinations, and thesis;

ON

WILLIAM TORREY HARRIS,

in recognition of the critical research and special attainments evinced
in his numerous writings on Philosophy and Pedagogy.

HONORARY DEGREES

THE DEGREE OF MASTER OF ARTS

ON

WILLIAM WHITMAN BAILEY,
CHARLES HENRY BANES,
THOMAS GEORGE DICKSON.

THE DEGREE OF DOCTOR OF SCIENCE

ON

ELBRIDGE SMITH,
JOHN TETLOW,
HORACE MANN WILLARD.

THE DEGREE OF DOCTOR OF DIVINITY

ON

LYSANDER DICKERMAN,
BENJAMIN ALLEN GREENE,
GEORGE LYMAN LOCKE,
LYMAN BEECHER TEFFT.

THE DEGREE OF DOCTOR OF LAWS

ON

JOHN SUMMERFIELD BRAYTON,
JAMES MADISON MORTON,
RICHARD OLNEY,
WILLIAM LEBARON PUTNAM,
JOHN HENRY STINESS.

STUDENTS

GRADUATES

CANDIDATES FOR THE DEGREE OF DOCTOR
OF PHILOSOPHY

BERTHA BASS, A. M. Wesleyan University 1889 History, Political Science	<i>Newport,</i>	11 Greene St.
CLAUS ALFRID BERGSTRÖM, A. B. Brown University 1888 ; B. D. Yale University 1891 Philosophy, History	<i>Providence,</i>	32 Grand St.
ASA CLINTON CROWELL, A. M. Brown University 1889 German, French	<i>Pawtucket,</i>	Pawtucket.
WILLIAM WOODSIDE CURTIS, A. M. Bowdoin College 1885 History, Philosophy	<i>Pawtucket,</i>	Pawtucket.
JAMES QUAYLE DEALEY, A. M. Brown University 1893 Political Science	<i>Dallas, Texas,</i>	27 Benevolent St.
CHARLES EDWARD DENNIS JR., A. M. Brown University 1890 Latin, Greek, Ancient History	<i>Providence,</i>	56 Messer St.
WALTER GOODNOW EVERETT, A. M. Brown University 1888 Philosophy, Ethics	<i>Providence,</i>	171 Pleasant St.
ROBERT HENRY FERGUSON, A. M. Brown University 1887; B. D. Newton Theological Institution 1887 Philosophy, Psychology	<i>Boston, Ms.,</i>	715 Westminster St.
WALTER BALLOU JACOBS, A. M. Brown University 1885 Philosophy, Pedagogy	<i>Providence,</i>	362 Point St.
ALBERT BUSHNELL JOHNSON, A. M. Brown University 1892 Romance Languages, German	<i>East Providence,</i>	East Providence.

ERNEST HENRY JOHNSON,	<i>East Providence,</i>	East Providence.
A. M. Brown University 1892		
German, Romance Languages		
ARTHUR NEWTON LEONARD,	<i>Providence,</i>	71 Providence St.
A. M. Brown University 1893		
Teutonic Languages and Literatures, French		
GEORGE PLUMNER MERRILL,	<i>Minneapolis, Minn.,</i>	80 Congdon St.
A. B. University of Minnesota 1893		
Political and Social Science, Modern Languages		
GOLDSBERRY BOBO MERRITT,	<i>Fall River, Ms.,</i>	Fall River.
A. M. Antioch College 1892		
Semitic Languages, Philosophy of Religion		
AUGUSTUS TABER SWIFT,	<i>New Bedford Ms.,</i>	Lakeville, Ct.
A. M. Brown University 1890		
German, French, English		
MARTHA TARBELL,	<i>Providence,</i>	169 Power St.
A. M. De Pauw University 1887		
German, French		
HERMAN WILLIAM WÄTJEN,	<i>Warren,</i>	Warren.
A. B. Brown University 1890 ; B. D. Newton Theological Institution 1893		
Social Science, Philosophy		
WALTER HARRIS YOUNG,	<i>Warren,</i>	Warren.
A. M. Brown University 1892		
Philosophy, Greek		

CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

I. Fully in Residence

EARL CHAPMAN ARNOLD,	<i>Providence,</i>	409 Friendship St.
B. P. Brown University 1893		
Mathematics, Astronomy		
STEPHEN SHELDON COLVIN,	<i>Providence,</i>	34 Benevolent St.
B. P. Brown University 1891		
English, Philosophy		
ORIN PARKER DURKEE,	<i>Warrenville, Ct.,</i>	University 25.
B. P. Brown University 1893		
English Literature and Language		
IRVING LYSANDER FOSTER,	<i>East Killingly, Ct.,</i>	Hope 16.
A. B. Brown University 1893		
German, Romance Languages		

FREDERIC POOLE GORHAM A. B. Brown University 1893 Embryology, Geology	<i>Providence,</i>	236 Knight St.
HORACE EDGAR JACOBS, A. B. Brown University 1893 Anatomy, Psychology, Embryology, Bacteriology	<i>Providence,</i>	967 Broad St.
JULIUS KUMPEI MATUMOTO, A. B. University of Tokio 1888 Political Economy, History	<i>Tokio, Japan,</i>	28 Sabin St.
ALEXANDER MEIKLEJOHN, A. B. Brown University 1893 Ethics, Philosophy of Religion, Psychology	<i>Pawtucket,</i>	Pawtucket.
WENDELL AXTELL MOWRY, A. B. Brown University 1893 Zoology, Geology	<i>Woonsocket,</i>	Woonsocket.
WINTHROP JOHN VANLEUVEN OSTERHOUT, A. B. Brown University 1893 Botany, Cellular Biology	<i>Providence,</i>	18 Oak St.
CARL VERNON TOWER, A. B. Brown University 1893. Metaphysics, Psychology	<i>Dayton, O.,</i>	261 Benefit St.
ALFRED REYNOLDS WIGHTMAN, A. B. Brown University 1893 History, English	<i>Wickford,</i>	University 26.

II. Registered as *in absentia* yet resident near the University and able to
enjoy certain of its privileges

JOHN LINCOLN ALGER, A. B. Brown University 1890 Physics, Mathematics	<i>Providence,</i>	3 Angell Place.
GEORGE FREDERICK ANDREWS, A. B. Brown University 1892 Chemistry, English Literature	<i>Providence,</i>	91 Almy St.
ELI WHITNEY BLAKE JR., A. B. Brown University 1888. Zoology, English	<i>Providence,</i>	72 Waterman St.
EMMA ELIZABETH BROWN, A. B. Smith College 1891 German, Philosophy	<i>Providence,</i>	170 Prospect St.
ERNEST HENRY BROWNELL, A. B. Brown University 1888 ; B. S. Massachusetts Institute of Technology 1890 Geology, Astronomy, Physics	<i>Providence,</i>	4 Cushing St.

HERBERT CARPENTER BROWNELL,	<i>Providence,</i>	73 Prospect St.
A. B. Brown University 1892 Political Economy, Geology		
LEONARD HERBERT CAMPBELL,	<i>Providence,</i>	213 Pavilion Ave.
A. B. Brown University 1892 History, Political Economy		
EDWARD NORTON CASEY,	<i>Whiting, Vt.,</i>	7 College St.
A. B. Brown University 1893 Sociology, American History		
EDGAR BENJAMIN FRENCH,	<i>Pawtucket,</i>	Pawtucket.
A. B. Brown University 1890 German, Philosophy		
JOHN FRANCIS GREENE,	<i>Seekonk,</i>	34 Benevolent St.
A. B. Brown University 1891 American History, German, Spanish		
JOHN FREDERICK HALLER,	<i>Providence,</i>	271 Washington St.
A. B. ; M. D. Buffalo Medical School 1888 German, English Literature, Rhetoric		
HENRY HARMON HASTINGS,	<i>Pawtucket,</i>	Pawtucket.
A. B. Bowdoin College 1890 Constitutional History, Constitutional Law		
ELLEN MARIA HINDS,	<i>Providence,</i>	103 Governor St.
A. B. Smith College 1889 English, Mathematics		
MARTIN WILMARTH KERN,	<i>Providence,</i>	81 Chestnut St.
B. P. Brown University 1892 Mechanics, German		
ELIZA SHAW KING,	<i>Providence,</i>	38 Angell St.
A. B. Vassar College 1890 Greek, Latin, German		
CHARLES ALBERT MEADER,	<i>Pawtucket,</i>	Pawtucket.
A. B. Brown University 1891 German		
LEWIS HAMILTON MEADER,	<i>Providence,</i>	21 Andem St.
A. B. Dartmouth College 1878 ; A. M., <i>ibid.</i> 1884 History, German		
EDWIN BARNES NIVER,	<i>Providence,</i>	31 Common St.
A. B. Brown University 1893 Philosophy, Sociology		
WILLIAM HENRY O'NEIL,	<i>Providence,</i>	10 Kepler St.
B. P. Brown University 1892 History, German		
GEORGE HERBERT PERKINS,	<i>Providence,</i>	19 Angell St.
A. B. Harvard University 1884 Mathematics, Advanced Mechanics		

JAMES ALDRICH PIRCE, A. B. Brown University 1892 History	<i>Johnston,</i>	Johnston.
WILLIAM JOB REYNOLDS, A. B. Brown University 1886 Semitic Languages, Oriental History	<i>Providence,</i>	268 Waldo St.
WALTER HERBERT RUSSELL, A. B. Boston University 1877 German, French	<i>Barrington Centre,</i>	Barrington.
LUCIAN SHARPE JR., A. B. Brown University 1893 History, Political Economy	<i>Providence,</i>	56 Angell St.
DENNIS HARVEY SHEAHAN, A. B. Brown University 1889 History	<i>Providence,</i>	138 Veazie St.
PERCY DINSMORE SMITH, A. B. Brown University 1889 History, Geology	<i>Providence,</i>	61 Westminster St.
WILLIAM CHARLES STINSON, A. B. Bucknell University 1886 Social Science	<i>Providence,</i>	137 Ontario St.
EDWARD ALLEN SWAIN, A. B. Brown University 1882; A. M. <i>ibid.</i> 1885 Latin	<i>Providence,</i>	15 Charles Field St.
HERMAN WILLIAM WÄTJEN, A. B. Brown University 1890; B. D. Newton Theological Institution 1893 Social Science, Philosophy	<i>Warren,</i>	Warren.
EDWARD HENRY WEEKS, B. P. Brown University 1893 History, Social Science	<i>Providence,</i>	Friends School.
ARTHUR LINCOLN WHEELER, A. B. Brown University 1889 German, History	<i>Providence,</i>	26 Cabot St.
HARRIET MAY WHITE, A. B. Smith College 1886 Latin, Greek	<i>Woonsocket,</i>	141 Blackstone St.
ELMER ALMY WILCOX, A. B. Brown University 1891 Social Science, Political Economy	<i>Providence,</i>	59 Messer St.
FANNIE ELIZABETH WOODS, A. B. Wellesley College 1887 German, History of Art	<i>Providence,</i>	19 Congdon St.
LEVERETT SUPPLY WOODWORTH, A. B. Brown University 1872 Ecclesiastical History	<i>Providence,</i>	5 Rhode Island Ave.

III. Fully in absentia

- EMILY FRANCES ALLEN, Box 2177, *Boston, Ms.*
 B. P. Boston University 1891
 English Literature, History
- NEIL ANDREWS JR., *Newton Centre, Ms.*
 A. B. Brown University 1892
 History, History of Philosophy
- ALBERT LESLIE BARBOUR, *Ashton.*
 A. B. Brown University 1892
 Political and Social Science
- EDWARD OTIS BARTLETT JR., *Cornwall-on-Hudson, N. Y.*
 A. B. Brown University 1891
 German, French
- JOSIAH BARTLETT, *Sing Sing, N. Y.*
 B. P. Brown University 1888
 Mathematics, German
- ALEXANDER PHOENIX BOURNE, *Andover, Ms.*
 A. B. Brown University 1890
 Social Science, Philosophy of Religion
- WARREN GARDNER BULLARD, *Geneva, N. Y.*
 A. B. Brown University 1892
 Mathematics, Philosophy
- JOSEPH EDMOND BULLEN, *New York City.*
 A. B. Brown University 1890
 German, History, English Literature
- EDMUND CODY BURNETT, *Mossy Creek, Tenn.*
 A. B. Brown University 1890
 History, Greek
- THEODORE ELMER BUSFIELD, 155 Miller St., *Utica, N. Y.*
 A. B. Tufts College 1880
 American History
- WILLIAM ALLEN CALDWELL, *Lebanon, Tenn.*
 A. B. Cumberland College 1892
 Greek, German, Latin, Spanish
- SETH HOWARD CHACE, *East Freetown, Ms.*
 A. B. Brown University 1893
 Political and Social Science
- WILLIAM RICHARDSON DORMAN, 111 Park Pl., *Brooklyn, N. Y.*
 A. B. Brown University 1892
 Social Science, German Literature
- FRANK TOURTELLOT EASTON, *Tribune Office, New York City.*
 A. B. Brown University 1892
 Political and Social Science
- SAMUEL ANDREWS EVERETT, Box 822, *Providence.*
 A. B. Brown University 1891
 English Literature, Political Economy

- HERSCHEL LUTHER GARDNER, 118 E. 45th St., *New York City*.
A. B. Columbia College 1892
Constitutional History, Constitutional Law
- WILLIAM JOHN GREEN, *New York City*.
A. B. Brown University 1891
Ethics, English History
- GEORGE JAMES HOLDEN, *Altoona, Pa.*
A. B. Brown University 1891
Constitutional History, Political Economy
- DENNIS JOSEPH HOLLAND, 965 Broad St., *Providence*.
B. P. Brown University 1890
German, Romance Languages
- DANIEL HOWARD, *Wallingford, Ct.*
A. B. Brown University 1893
History, Social Science, Political Economy
- ANNA BELLE JENKS, *Zürich, Switzerland*.
A. B. Wellesley College 1890
Latin, German
- PRESCOTT FORD JERNEGAN, *Middletown, Ct.*
A. B. Brown University 1889; B. D. Newton Theological Institution 1892
History of Philosophy, Ethics
- EDGAR MANN JOHNSON, *Poquonock, Ct.*
A. B. Brown University 1893
German, French
- ARTHUR JOSEPH LLEWELLYN, *Kenwood, Cal.*
A. B. Brown University 1893
Philosophy, English Literature
- ALEXANDER MARSHALL, *Ashton*,
B. P. Brown University 1888; M. D. University of City of New York 1891
Physiology, Chemistry
- HORACE MCFARLAND, *Portland, Me.*
B. P. Brown University 1892
Anthropology, Geology
- EDWARD DE VALLIE O'CONNOR, 1067 Cambridge St., *Cambridge, Ms.*
B. P. Brown University 1892
Political Science, Social Science
- HENRY ROBINSON PALMER, *Stonington, Ct.*
A. B. Brown University 1890
History, English
- HENRY KALLOCH ROWE, *New London, N. H.*
A. B. Brown University 1892
American History, International Law
- GERALD BIRNEY SMITH, Worcester Academy, *Worcester, Ms.*
A. B. Brown University 1891
Philosophy, American Political History

-
- DAVID GRANT SMYTH, *Hartford, Ct.*
 A. B. Brown University 1889
 Mathematics
- FRANK WILLIAM TUCKER, *Worcester Academy, Worcester, Ms.*
 A. B. Brown University 1892
 Sociology, German
- FRANK ARTHUR UPDYKE, *Atlanta, Ga.*
 A. B. Brown University 1893
 Political and Social Science
- GEORGE BULKELEY WAKEMAN, *Havana, N. Y.*
 A. B. Brown University 1884
 Greek, Latin, German
- WILLIAM ALLEN WILBUR, *West Bridgewater, Ms.*
 A. B. Brown University 1888
 Mediaeval and Modern History, Latin, English
- EDGAR LINCOLN WILLARD, *Oxford, Ms.*
 A. B. Brown University 1891
 English Literature, Ethics
- FRANK EDWARD WINSOR, *93 Lincoln St., Boston.*
 B. P. Brown University 1891; C. E. *ibid* 1892
 Mechanics, Geology
- WALTER ALLEN YOUNG, *Slatersville.*
 B. P. Brown University 1891
 Mathematics, Advanced Mechanics

Undergraduates

SENIOR CLASS

NAME	RESIDENCE	ROOM
Charles Spaulding Aldrich,	<i>Weathersville, Vt.,</i>	Hope 24.
Henry Milton Barry,	<i>Saxton's River, Vt.,</i>	Hope 42.
James Davis Bennett,	<i>Hope Valley,</i>	University 21.
John William Beverly,	<i>Montgomery, Ala.,</i>	3 Hughes St.
Russell Hall Birge,	<i>Providence,</i>	Hope 24.
Francis Chase Bliss,	<i>Newport,</i>	240 Benefit St.
William Clifton Bourne,	<i>Pawtucket,</i>	University 13.
William Alva Brady,	<i>Brooklyn, N. Y.,</i>	Slater 8.
Samuel Willard Bridgham,	<i>East Providence,</i>	Hope 39.
Walter Dexter Brownell,	<i>Providence,</i>	73 Prospect St.
Herbert Daniel Casey,	<i>Whiting, Vt.,</i>	Hope 48.
George Mason Chamberlin,	<i>Orange, Ms.,</i>	112 George St.
Frederick Wilkinson Colburn,	<i>Holliston, Ms.,</i>	University 59.
Clayton Sedgwick Cooper,	<i>Henderson, N. Y.,</i>	University 48.
Thomas Crosby Jr.,	<i>Newport,</i>	Slater 20.
George Marcus Crowell,	<i>Providence,</i>	Hope 24.
William Tully Dorrance,	<i>Providence,</i>	98 Waterman St.
William Douglas,	<i>Indianapolis, Ind.,</i>	107 Prospect St.
Hezekiah Anthony Dyer,	<i>Providence,</i>	154 Power St.
Charles Haigh Ellis,	<i>No. Billerica, Ms.,</i>	Hope 27.
George Sheldon Ellis,	<i>Allegany, N. Y.,</i>	Hope 33.
Adolph Conrad Ely,	<i>Plantsville, Ct.</i>	University 13.
Eugene Ellsworth Everett,	<i>Providence,</i>	7 Church St.

NAME	RESIDENCE	ROOM
John Russell Ferguson,	<i>Fall River, Ms.,</i>	Hope 26.
Harold Crins Field,	<i>Providence,</i>	Slater 5.
Miller Moore Fogg Jr.,	<i>Marmora, N. J.,</i>	11 Pratt St.
Jay Schuyler Fox,	<i>3 Mile Bay, N. Y.</i>	University 48.
Archie Norwood Frost,	<i>Lawrence, Ms.,</i>	University 54.
Edward Francis Gamwell,	<i>Holliston, Ms.,</i>	Hope 13.
George Warren Gardner,	<i>Biddeford, Me.,</i>	Slater 14.
Daniel Farrington George,	<i>Providence,</i>	University 18.
Clifford Henry Griffin,	<i>Providence,</i>	25 Division St.
Livingston Ham,	<i>Providence,</i>	2 Angell St.
Jacob Hayman,	<i>Libau, Russia,</i>	306 Pine St.
George Robinson Hazard,	<i>Newport,</i>	Hope 39.
Harold Dexter Hazeltine,	<i>Warren, Pa.,</i>	University 43.
Carl Ernest Healy,	<i>Fall River, Ms.,</i>	Hope 22.
Samuel McPherson Higgins,	<i>Flemington, N. J.</i>	Slater 18.
William Colver Hill,	<i>Malden, Ms.,</i>	University 10.
William Pitt Hinckley,	<i>Providence,</i>	89 Waterman St.
George Woodley Hogg,	<i>Providence,</i>	34 Congdon St.
John Hope,	<i>Augusta, Ga.,</i>	Hope 45.
William Caswell Huntoon,	<i>Providence,</i>	University 40.
Francis Chest'r Rockw'll Jackson,	<i>Delavan, Wis.,</i>	Hope 31.
Walter Hammond Kimball,	<i>Providence,</i>	University 10.
Richard Williams Kirkley,	<i>Toledo, O.,</i>	University 19.
Edwin Knowles Jr.,	<i>Providence,</i>	Slater 16.
Frank Edwin Lakey,	<i>Providence,</i>	127 Cranston St.
Joseph West Lewis,	<i>Providence,</i>	Slater 13.
Robert Stewart MacGregor,	<i>St. Andrews, P. Q.,</i>	Hope 38.
Benjamin Elbridge Martin.	<i>N. Swansea, Ms.,</i>	Hope 9.
Frederick William Marvel,	<i>Rehoboth, Ms.,</i>	University 19.
Frank Heath Mason,	<i>Greenwich, N. Y.,</i>	22 Lloyd St.
Joseph Belfield McIntyre,	<i>Providence,</i>	Hope 42.
Edward Bruce Merriman,	<i>Nayatt,</i>	University 22.
Harold Thurston Merriman,	<i>Nayatt,</i>	University 22.
James Spencer Moore,	<i>East Providence,</i>	Hope 29.
Allen Benton Morton,	<i>Kingston, Pa.,</i>	Hope 6.

NAME	RESIDENCE	ROOM
William Washburn Moss.	<i>Providence,</i>	Hope 35.
Edgar Smiley Nash,	<i>Philadelphia, Pa.,</i>	Slater 7.
Charles Spurgeon Nightingale,	<i>Louisville, Ky.,</i>	University 59.
David Bangs Pike,	<i>Providence,</i>	Hope 26.
Albert Joseph Pope,	<i>Lee, Ms.,</i>	University 13.
Samuel Willard Richardson,	<i>Painesville, O.,</i>	Slater 4.
George Lafayette Rifenburg,	<i>Charlotteville, N. Y.,</i>	Hope 46.
Louis Alexandre Roux,	<i>Saxton's River, Vt.,</i>	Hope 16.
Arthur William Rowell,	<i>Manchester, N. H.,</i>	413 Weybosset St.
Frank Joseph Sexton,	<i>Brockton, Ms.,</i>	Hope 19.
Henry Dexter Sharpe,	<i>Providence,</i>	56 Angell St.
John Smith Shippee,	<i>East Greenwich,</i>	East Greenwich.
Francis Hamilton Staples,	<i>Worcester, Ms.,</i>	Slater 5.
Edmund Job Steere,	<i>Providence,</i>	Hope 9.
Frank Steere,	<i>Glocester,</i>	Hope 9.
Morton Collins Stewart,	<i>Quincy, Ill.,</i>	University 10.
Mahlon Runyon Stout,	<i>N. Brunswick, N. J.,</i>	Hope 10.
William Cowper Stratton,	<i>Milford, N. H.,</i>	University 60.
Israel Strauss,	<i>Pawtucket,</i>	Pawtucket.
Howard Edwin Sumner,	<i>Worcester, Ms.,</i>	Slater 5.
Foster Williams Taft,	<i>Providence,</i>	102 Waterman St.
Albert Ellsworth Thomas,	<i>Brockton, Ms.,</i>	Slater 14.
Lewis Anthony Waterman,	<i>Providence,</i>	96 Chapin Ave.
Roddo York Young,	<i>Ottawa, Ks.,</i>	University 52.

JUNIOR CLASS

NAME	RESIDENCE	ROOM
Herbert Matthews Adams,	<i>Pawtucket,</i>	University 40.
W. Scott Adams,	<i>Agawam, Ms.,</i>	University 31.
Fred Davis Aldrich,	<i>Webster, Ms.,</i>	University 57.
George Allen Anthony,	<i>Drownville,</i>	Drownville.
John Clinton Anthony,	<i>Fall River, Ms.,</i>	Slater 3.
George Richard Atha,	<i>Pawtucket,</i>	University 19.
Chester Willard Barrows,	<i>Providence,</i>	Hope 24.
George William Bartlett,	<i>Pawtucket,</i>	Hope 8.
George Phippen Beckford,	<i>Manchester, N. H.,</i>	Hope 32.
Wayland Louis Beers,	<i>Montana, N. J.,</i>	11 Pratt St.
Oscar Francis Bellows,	<i>Providence,</i>	University 36.
Fred Bement,	<i>Suffield, Ct.,</i>	Hope 25.
Norman North Bishop,	<i>Lawrence, Ms.,</i>	University 30.
William Arthur Burt,	<i>Providence,</i>	236 Friendship St.
William Walter Bustard,	<i>Paterson, N. J.,</i>	Hope 10.
John Weston Butler,	<i>East Greenwich,</i>	East Greenwich.
Walter Guyton Cady,	<i>Providence,</i>	Slater 6.
Daniel Champlin Chace,	<i>Providence,</i>	362 Point St.
Frederick Otis Clapp,	<i>Providence,</i>	11 Bridgham St.
Theron Clark,	<i>Colchester, Ct.,</i>	University 30.
Raymond Capron Cook,	<i>Woonsocket,</i>	Hope 40.
Henry Elliott Cooper,	<i>Pawtucket,</i>	Slater 7.
Walter Theodore Crosby,	<i>Brockton, Ms.,</i>	Slater 15.
Nathaniel Wheaton Dexter,	<i>Pawtucket,</i>	University 40.
Jay Rogers Dickinson,	<i>Beaver Dam, Wis.,</i>	Hope 35.
Samuel White Duncan Jr.,	<i>Haverhill, Ms.,</i>	Slater 6.
Albert Milton Dunham,	<i>Attleborough, Ms.,</i>	Hope 8.

NAME	RESIDENCE	ROOM
Stafford Clarence Edwards,	<i>Nanticoke, N. Y.,</i>	369 Weybosset St.
Franklin Davenport Elmer,	<i>West Hartford, Ct.,</i>	Hope 22.
Arthur Llewellyn Eno,	<i>Charlotte, Vt.,</i>	University 57.
Ferdinand Joseph Feeley,	<i>Woonsocket,</i>	Hope 19.
Will Edward Gardner,	<i>Nantucket, Ms.,</i>	31 John St.
Herve Washington Georgi.	<i>Jamestown, N. Y.,</i>	University 28.
George Andrew Gordon,	<i>Worcester, Ms.,</i>	Hope 4.
Howard Marsh Grant,	<i>Providence,</i>	20 Brighton St.
William Fraser Grant,	<i>Providence,</i>	85 Lippitt St.
Henry Jewett Hall,	<i>Milford, N. H.,</i>	29 Benevolent St 21.
Alexander Emor Harrington,	<i>Johnston,</i>	University 45.
William Wirt Harvey,	<i>Providence,</i>	344 Public St.
Fred Ellis Horton,	<i>Providence,</i>	31 State St.
Henry Joseph Hoyer,	<i>Providence,</i>	Slater 12.
Arthur Johnson Hull,	<i>Monroe, Ct.,</i>	21 Brown St. 8.
Edward Perkins Jastram,	<i>Providence,</i>	Slater 16.
Elisha Tucker Peirce Jenks,	<i>Middleborough, Ms.,</i>	Slater 12.
Fred Lionel Chester Keating,	<i>Providence,</i>	University 19.
Hazen Kimball,	<i>New Market, N. H.,</i>	32 Custom Ho. St.
Elno Dustin Lancey,	<i>Brookline, N. H.,</i>	University 60.
James Lawson,	<i>Jamestown, N. Y.,</i>	University 28.
Arthur Amsden Macurda	<i>Watertown, Ms.,</i>	Hope 8.
Henry Mahoney,	<i>Providence,</i>	46 Bellevue Ave.
Edward Arthur Maynard,	<i>Burlington, Vt.,</i>	96 George St. 1.
William McDonald Jr.,	<i>Albany, N. Y.,</i>	Slater 9.
Philip Talmage McGown,	<i>Amherst, N. H.,</i>	University 60.
Fred Winchester Mears,	<i>Newton Centre, Ms.,</i>	Hope 46.
Lester Meseroll,	<i>New Brunswick, N. J.,</i>	Hope 44.
William Henry Millington,	<i>Warwick,</i>	University 52.
Francis Wayland Miner Jr.,	<i>Providence,</i>	Hope 39.
Frank Henry Morris,	<i>Providence,</i>	70 Meeting St.
Charles Jerome O'Connor,	<i>Providence,</i>	187 Camp St.
William Thomas O'Donnell,	<i>Bristol,</i>	University 44.
George Harwood Olney,	<i>Cherry Valley, Ms.,</i>	Slater 17.
Joseph Berchman O'Neill,	<i>Pawtucket,</i>	Pawtucket.

NAME	RESIDENCE	ROOM
Sumner Tingley Packard,	<i>Brockton, Ms.,</i>	Slater 15.
Algernon Wait Putnam,	<i>S. Lyndeboro, N. H.,</i>	21 Brown St. 11.
Fred Arthur Robinson,	<i>Greenville, N. H.,</i>	Hope 28.
Albert Waterman Rounds,	<i>Providence,</i>	University 40.
Edward Armington Sammis,	<i>Johnston,</i>	University 45.
Dallas Lore Sharp,	<i>Bridgton, N. J.,</i>	62 George St.
Edwin Angell Skinner,	<i>Bristol,</i>	Hope 26.
Frank Warren Sleeper,	<i>Fr'klin Falls, N. H.,</i>	Hope 18.
Frederick Slocum,	<i>New Bedford, Ms.,</i>	Hope 11.
Frederick Eugene Steere,	<i>Johnston,</i>	University 50.
Allan Prescott Stevens,	<i>Bristol,</i>	21 Brown St. 6.
Roy Walter Sumner,	<i>Worcester, Ms.,</i>	Slater 7.
George Henry Sweet,	<i>Fall River, Ms.,</i>	Hope 22.
John Campbell Swift,	<i>New Bedford, Ms.,</i>	Hope 11.
Royal Chapin Taft Jr.,	<i>Providence,</i>	79 Waterman St.
Lucien Edward Taylor,	<i>Providence,</i>	98 Whitmarsh St.
Fred Tenney,	<i>Georgetown, Ms.,</i>	University 50.
John Avery Tillinghast,	<i>Pawtucket,</i>	Pawtucket.
Edgar Luther Tinkham,	<i>Providence,</i>	100 Courtland St.
Amasa Rand'll Tourt'lot Truex,	<i>Binghamton N. Y.,</i>	96 George St. 11.
Richard Miner Vaughan,	<i>Bangor, Wis.,</i>	Hope 17.
Francis Willis Wamsley,	<i>Bridgton, N. J.,</i>	R. I. Hall.
John Franklin Watts,	<i>Lynn, Ms.,</i>	21 Brown St. 12.
Harry Clifford Whipple,	<i>Providence,</i>	Slater 3.
Paul Maurice White,	<i>Woonsocket,</i>	Hope 40.
Hobart Augustus Whitman,	<i>Worcester, Ms.,</i>	Slater 4.
Benjamin Williams,	<i>Jackson, Mich.,</i>	Hope 38.
William Frederick Wilson,	<i>Somerset, Ms.,</i>	21 Brown St. 12.
Louis Victor Campbell Winter,	<i>Staten Island, N. Y.,</i>	University 12.
Augustus Judson Wood,	<i>Fall River, Ms.</i>	Hope 7.
Peter Clark Wright,	<i>Merton, Wis.,</i>	Hope 20.
Walter Cornelius Wyckoff,	<i>Red Bank, N. J.,</i>	Hope 37.

SOPHOMORE CLASS

NAME	RESIDENCE	ROOM
John Henry Harlow Alden.	<i>Middleborough, Ms.,</i>	Slater 12,
James Ellis Ames,	<i>Brockton, Ms.,</i>	Hope 1.
Guy Ashton Andrews,	<i>Providence.</i>	72 College St.
John Wardwell Angell,	<i>Providence,</i>	34 George St.
Charles Montgomery Angle,	<i>Stroudsburg, Pa.,</i>	Hope 30.
Carroll Harry Ash,	<i>Lisbon, N. H.,</i>	96 George St. 16.
Charles Fenner Atwood,	<i>Manton,</i>	University 45.
Justin Homer Bacon,	<i>Bellows Falls, Vt.,</i>	96 George St. 16.
Allan Buell Bicknell,	<i>Providence,</i>	Hope 1.
William Carpenter Bliss.	<i>East Providence.</i>	19 College St.
Charles Allen Boyd,	<i>Woodbury, Ct.,</i>	96 George St. 15.
Edwin Putnam Brown,	<i>Beaver Dam, Wis.,</i>	Hope 17.
Edward Everett Bucklin,	<i>Providence,</i>	162 Clifford St.
George Saunders Bullock Jr.,	<i>Warren,</i>	University 16.
Joseph Richard Bullock Jr.,	<i>Providence,</i>	30 Lockwood St.
Champlin Burrage,	<i>Portland, Me.,</i>	Hope 5.
Arthur Deering Call,	<i>Cortland, N. Y.,</i>	University 16.
Malcolm Greene Chace,	<i>Valley Falls,</i>	Slater 9.
George White Chipman,	<i>Wareham, Ms.,</i>	21 Brown St. 5.
Chester Stanley Churchill,	<i>Whitman, Ms.,</i>	Hope 2.
Samuel Belden Churchill,	<i>Pittsfield, Ms.,</i>	East Providence.
Robert Harvey Day,	<i>Providence,</i>	Douglas St.
Charles Frederick Deacon,	<i>Pawtucket,</i>	University 32.
Leon Hayes Denison,	<i>Deep River, Ct.,</i>	Slater 8.
Horace Paul Dorman,	<i>Salem, N. J.,</i>	Hope 30.
Gasherie De Witt Dowling,	<i>Philadelphia, Pa.,</i>	University 47.

NAME	RESIDENCE	ROOM
Charles Reginald Easton,	<i>Pawtucket,</i>	25 Hawes St.
Burton Sanderson Flagg,	<i>Littleton, Ms.,</i>	96 George St. 8.
Charles Jay Foskett,	<i>Utica, N. Y.,</i>	University 54.
Theodore Clyde Foster,	<i>Providence,</i>	University 58.
George Frederick Frost,	<i>Hyde Park, Ms.,</i>	University 28.
Clarence Mason Gallup,	<i>Norwich, Ct.,</i>	University 52.*
Irving Henry Gamwell,	<i>Holliston, Ms.,</i>	Hope 13.
Seth Ashley Gibson,	<i>Providence,</i>	29 Benevolent St 12.
Collins Millard Graves,	<i>Bennington, Vt.,</i>	University 43.
Ronald Conrad Green,	<i>Providence,</i>	14 John St.
George Francis Greene,	<i>Fall River, Ms.,</i>	Slater 19.
Harry Sylvester Greene,	<i>Woonsocket,</i>	Hope 19.
Carleton Hale,	<i>Providence,</i>	Hope 39.
Herbert Faulkner Hill,	<i>Warren, Ms.,</i>	29 Benevolent St 12.
George Clarke Hinckley,	<i>Providence,</i>	89 Waterman St.
Lester Carl Holmberg,	<i>Campello, Ms.,</i>	Slater 3.
George Hopkinson,	<i>Perkinsville, Vt.,</i>	96 George St. 14.
Herbert Bradford Horton,	<i>East Providence,</i>	Hope 29.
Daniel Mansfield Hoyt,	<i>Minneapolis, Minn.,</i>	21 Brown St. 4.
Gardner Kirk Hudson,	<i>Fitchburg, Ms.,</i>	Hope 8.
Joseph Alphonsus Hughes,	<i>Pawtucket,</i>	Pawtucket.
John Mercer Hunt,	<i>Hancock Br'dge N.J.,</i>	96 George St. 13.
Henry Felton Huse,	<i>Boston, Ms.,</i>	University 55.
Marcus Wilson Jernegan,	<i>Edgartown, Ms.,</i>	96 George St. 5.
Edward West Johnson,	<i>Keene, N. H.,</i>	96 George St. 15.
Frederick Augustus Jones,	<i>Bl'k Riv. Falls, Wis.,</i>	Hope 20.
Frederick William Jones,	<i>Worcester, Ms.,</i>	University 17.
William Augustine Jones,	<i>Providence,</i>	Slater 2.
Alvan Alden Kempton,	<i>Newport, N. H.,</i>	Hope 28.
William Herbert Kenerson,	<i>Providence,</i>	163 Waldo St.
Howard Day Kenyon,	<i>Pawtucket,</i>	University 31.
George Potter King,	<i>Arlington,</i>	Hope 21.
Herbert Bowman Lang,	<i>Andover, Ms.,</i>	Slater 6.
James Henry Larkin,	<i>Woonsocket,</i>	University 48.
Abram LeGrand,	<i>Milwaukee, Wis.,</i>	87 Benefit St.

NAME	RESIDENCE	ROOM
John Bosworth Lewis,	<i>Providence,</i>	University 27.
Edward Allen Locke.	<i>Whitman, Ms.,</i>	Hope 2.
Harry Saxton Mabie,	<i>Boston, Ms.,</i>	96 George St. 8.
Robert Fox MacArther,	<i>New York, N. Y.,</i>	University 53.
George Arnold Matteson.	<i>Providence.</i>	University 18.
William Alexander McAuslan,	<i>Providence,</i>	Slater 13.
Alfred Bertrand Meacham,	<i>Stoneham, Ms.,</i>	Hope 23.
Theodore Clarkson Merrill,	<i>Providence,</i>	Hope 6.
William Francis Miner.	<i>East Providence,</i>	East Providence.
Wesley Elias Monk,	<i>Campello, Ms.,</i>	Slater 20.
Albert Swift Morse,	<i>Fairhaven, Ms.,</i>	Hope 25.
Edward Baily Morse,	<i>Grafton, Ms.,</i>	University 10.
Anthony Ambrose Mulligan,	<i>Woonsocket,</i>	University 20.
John Samuel Murdock,	<i>Moosup, Ct.,</i>	96 George St. 10.
Albert Rodman Nichols,	<i>Providence,</i>	Hope 6.
Charles Palmer Nott,	<i>Burlington, Vt.,</i>	96 George St. 1.
William Pierce Otis,	<i>Providence,</i>	University 41.
Ernest Victor Page,	<i>Johnston,</i>	University 45.
Edward Stark Parker,	<i>Providence,</i>	216 Benefit St.
George Lincoln Parker,	<i>Fitchburg, Ms.,</i>	Hope 36,
Robert Simmons Phillips,	<i>New Bedford, Ms.,</i>	21 Brown St. 6.
Tristram Cleveland Phinney,	<i>Edgartown, Ms.,</i>	96 George St. 5.
William Edward Price,	<i>Brockton, Ms.,</i>	Hope 44.
Elmer Jeremiah Rathbun,	<i>Noose Neck,</i>	32 Custom Ho. St.
James Helme Rickard Jr.,	<i>Woonsocket,</i>	96 George St. 7.
Edward Sanford Roberts,	<i>Providence,</i>	29 Benevolent St 12.
Edward North Robinson,	<i>Danvers, Ms.,</i>	Hope 43.
Will Austin Robinson,	<i>E. Gloucester, Ms.,</i>	257 Benefit St.
Henry Hall Rockwell,	<i>Chicago, Ill.,</i>	University 58.
Turner Rollinson,	<i>Providence,</i>	25 Delaine St.
William Webster Rugg,	<i>Perkinsville, Vt.,</i>	Hope 14.
Frank Page Sackett,	<i>Providence,</i>	University 22.
Robert Clark Sanger,	<i>Franklin Falls, N. H.</i>	29 Benevolent St 22.
William Briggs Savery,	<i>Attleborough, Ms.,</i>	Attleborough.
Frank Edward Smith,	<i>Brockton, Ms.,</i>	University 34.

NAME	RESIDENCE	ROOM
Henry Lawrence Smith,	<i>Providence,</i>	242 Wayland Ave.
Howard Revere Smith,	<i>Portsmouth, N. H.,</i>	51 Angell St.
Jesse Fowler Smith,	<i>East Hartford, Ct.,</i>	Hope 21.
John William Smith,	<i>Providence,</i>	132 Rhodes St.
Charles Sumner Stedman,	<i>Albany, N. Y.,</i>	Hope 23.
William Harris Steere,	<i>Providence,</i>	Hope 9.
Allison Stone,	<i>Providence,</i>	24 Linden St.
Arthur Crowell Stone,	<i>Providence,</i>	University 41.
Samuel Richmond Stratton,	<i>Salem, N. J.,</i>	96 George St. 13.
Mason Martin Swan,	<i>Belleville, N. Y.,</i>	96 George St. 4.
Arthur Jewell Talcott,	<i>Woonsocket,</i>	96 George St. 9.
Harry Luke Thompson,	<i>East Providence,</i>	18 Summit St.
James Humphrey Thurston,	<i>Providence,</i>	64 Congdon St.
Charles Waterman Tupper,	<i>Olneyville,</i>	89 Plainfield St.
George Bickford Van Doren,	<i>Chaumont, N. Y.,</i>	Hope 34.
Joseph Canfield Van Doren.	<i>Chaumont, N. Y.,</i>	Hope 34.
Robert Churchill Vose,	<i>Providence,</i>	21 Angell St.
Everett Lewis Walling,	<i>Woonsocket,</i>	Hope 37.
Henry Herbert Waterman,	<i>Providence,</i>	503 Plain St.
James Primrose Whyte,	<i>Wauhegan, Ill.,</i>	96 George St. 10.
Robert Young,	<i>Bristol,</i>	University 44.

FRESHMAN CLASS

NAME	RESIDENCE	ROOM
Samuel Adams,	<i>West Haven, Vt.</i>	University 31.
Willis Wood Aldrich,	<i>Wethersf'ld Ctr., Vt.</i>	University 31.
Arthur Moulton Allen,	<i>Providence,</i>	Hope 44.
Charles Henry Allen,	<i>Needham, Ms.,</i>	96 George St. 12.
Chester Willard Allen,	<i>East Boston. Ms.,</i>	Hope 5.
Horatio Cushing Allen,	<i>Marion, Ms.,</i>	21 Brown St. 5.
Raymond Cleveland Allen,	<i>Manchester, Ms.,</i>	29 Benevolent St 20.
Seril Clemence Armstrong,	<i>Woonsocket,</i>	Hope 15.
Fred Atwell Arnold,	<i>Pawtucket,</i>	21 Brown St. 10.
Martin Hollis Arnold,	<i>Providence,</i>	41 Chapin Ave.
James Hope Arthur,	<i>Providence,</i>	Slater 17.
Arthur Francis Ballou,	<i>Woonsocket,</i>	Hope 15.
Waldo Reynolds Bartlett,	<i>Burrillville,</i>	Hope 15.
Roscoe Hosmer Belknap,	<i>Framingham, Ms.,</i>	Hope 31.
Charles Hall Bennett,	<i>Jackson, Mich.,</i>	29 Benevolent St 11.
Henry Wells Newell Bennett,	<i>Manchester, N. H.,</i>	Hope 32.
Charles Knowles Bidwell,	<i>Warren Pr Mills N J</i>	University 28.
Horace Greeley Bissell,	<i>Apponaug,</i>	Apponaug.
George Miles Bliss,	<i>East Providence,</i>	19 College St.
Fred Emerson Briggs,	<i>Attleborough, Ms.,</i>	University 47.
Howard Bowen Briggs,	<i>Providence,</i>	209 Point St.
Edwin Cornelius Broome,	<i>Central Falls,</i>	University 16.
John Howard Brown,	<i>Westerly,</i>	38 Barnes St.
Clarence Rhodes Budlong,	<i>Providence,</i>	189 Governor St.
Paul Revere Bullard,	<i>Waltham, Ms.,</i>	University 33.
Alfred Walter Bullock,	<i>Pawtucket,</i>	21 Brown St. 10.
Arthur Hale Chamberlain,	<i>Portland, Me.,</i>	29 Benevolent St 20.
Allen Herbert Chase,	<i>Providence,</i>	University 18.
Marion McAllister Clarke,	<i>Newport,</i>	Hope 39.
Charles Eugene Clift,	<i>Middlet'n, Sp'gs, Vt.,</i>	21 Brown St. 11.
Everett Colby,	<i>New York, N. Y.,</i>	Slater 10.

NAME	RESIDENCE	ROOM
Frederick Pierce Cole,	<i>Woonsocket,</i>	University 21.
William Coleman.	<i>Valdosta, Ga.,</i>	72 John St.
Elijah William Collins,	<i>Pawtucket,</i>	Slater 6.
Frederick Morton Comee,	<i>Woonsocket,</i>	University 32.
Maurice Howe Cooke,	<i>Providence,</i>	157 Angell St.
Arthur Maxson Cottrell,	<i>Westerly,</i>	Hope 7.
George Rice Coughlan.	<i>Adams, N. Y.,</i>	Hope 33.
John Harrington Cox,	<i>Western Sp'gs, Ill.,</i>	59 Williams St.
Eben Creighton,	<i>Thomaston, Me.,</i>	19 Angell St.
Lefferts Mason Dashiell.	<i>Lakewood, N. J.,</i>	Slater 11.
William Fitz Donovan,	<i>Clifton Forge, Va.,</i>	Hope 12.
Frank Davol Easterbrooks,	<i>Warren,</i>	University 46.
Charles Francis Eddy,	<i>Lime Rock,</i>	96 George St. 2.
George Alexander Eddy,	<i>Boston, Ms.,</i>	Hope 41.
Robert Stephen Emerson,	<i>Pawtucket,</i>	21 Brown St. 10.
John Evans,	<i>Providence,</i>	Hope 21.
Charles Towne Farnham,	<i>Saratoga Sp'gs, N. Y.,</i>	59 Williams St.
Ralph Welcome Farnham,	<i>Providence,</i>	283 Bucklin St.
William Milnes Faux,	<i>Elizabeth, N. J.,</i>	33 Jenkins St.
Carl Russell Fish,	<i>Providence,</i>	18 Cabot St.
Timothy Aloysius Fitz Gerald,	<i>Millville, Ms.,</i>	96 George St. 12.
Frank Ballou Follett,	<i>Ashton,</i>	96 George St. 2.
Albert Orson Foster,	<i>Utica, N. Y.,</i>	29 Benevolent St 15.
George Stephenson Fox,	<i>Fall River, Ms.,</i>	21 Brown St. 8.
George Wilsey Gates,	<i>Otego, N. Y.,</i>	369 Weybosset St.
Will Friend Geisler,	<i>Holbrook, Ms.,</i>	12 Congdon St.
Matthew Bernard Gray,	<i>Providence,</i>	24 East St.
Eric Hastings Green,	<i>Providence,</i>	14 John St.
Herlwyn Ruggles Green,	<i>Providence,</i>	14 John St.
Daniel Myron Greene,	<i>East Greenwich,</i>	East Greenwich.
Albert Angus Griffin,	<i>Franklin Falls, N. H.,</i>	21 Brown St. 7.
Russell Grinnell,	<i>Providence,</i>	68 Bowen St.
Sanford Keith Gurney,	<i>Brockton, Ms.,</i>	Slater 14.
Frank Lawrence Hall,	<i>Bristol, Ct.,</i>	University 46.
Augustin Powell Hamlin,	<i>Newport,</i>	29 Benevolent St 8.

NAME	RESIDENCE	ROOM
Arthur Murray Hancock,	<i>Franklin Falls, N. H.</i>	Hope 43.
Albert Henry Harlow,	<i>Whitman, Ms.,</i>	29 Benevolent St 19.
Charles Augustus Harris,	<i>Fairhaven, Ms.,</i>	Hope 47.
Ralph Bertram Harris,	<i>Salem, Ms.,</i>	University 51.
William Andrew Harris Jr.,	<i>Providence,</i>	140 Prospect St.
Joseph Charles Hartwell,	<i>Providence,</i>	University 43.
George Coggeshall Hatch Jr.,	<i>New Bedford, Ms.,</i>	29 Benevolent St 16.
Russell Hathaway Jr.,	<i>Fairhaven, Ms.,</i>	158 Prospect St.
Harris Delos Higman,	<i>Chicago, Ill.,</i>	Slater 18.
Arthur Hollingworth,	<i>Pawtucket,</i>	21 Brown St. 10.
Daniel Franklin Holmes,	<i>Providence,</i>	16 Federal St.
William Burr Hopkins,	<i>Fruitland, N. Y.,</i>	Hope 36.
Leonard Wheaton Horton,	<i>Providence,</i>	47 Wilson St.
Sydney Daniel Humphrey,	<i>Providence,</i>	Butler Ave.
Joseph Martin Jenckes,	<i>Providence,</i>	Hope 14.
Harold Ladd Jillson,	<i>Providence,</i>	68 Chapin Ave.
Benjamin Dunn Jones,	<i>Providence,</i>	94 Courtland St.
Frank Oscar Jones,	<i>Providence,</i>	University 16.
Howard Frost King,	<i>Thompsonville, Ct.,</i>	Hope 27.
John Joseph Lace Jr.,	<i>Pascoag,</i>	3 Angell Place.
John Lake,	<i>Bristol,</i>	University 44.
William Setchell Learned,	<i>Berkeley, Cal.,</i>	27 Benevolent St.
Charles Ervin Lewis,	<i>Yarmouth, N. S.,</i>	University 33.
Edgar Alexander Lewis,	<i>Belleville, N. Y.,</i>	96 George St. 4.
Frank Horton Lewis,	<i>Providence,</i>	Slater 13.
Clarence Hart Lingham,	<i>Boston, Ms.,</i>	University 55.
Benj. Thomson Livingston,	<i>Pawtucket,</i>	University 57.
George Edward Lombard,	<i>Pawtucket,</i>	96 George St.
Henry Martin Lord Jr.,	<i>New York, N. Y.,</i>	96 George St. 11.
Clifton Welles Loveland,	<i>Providence,</i>	369 Weybosset St.
Marcus Ward Lyon Jr.,	<i>Providence,</i>	16 John St.
Herbert Allen Matteson,	<i>Anthony,</i>	Hope 5.
Archibald McClave,	<i>New York, N. Y.,</i>	Slater 10.
Arthur Milton McCrillis,	<i>Providence,</i>	University 48.
Marcus Harold Merchant,	<i>Warren,</i>	Warren.

NAME	RESIDENCE	ROOM
Isaac Butts Merriman,	<i>Nayatt Point,</i>	University 22.
Howard Tucker Metcalf,	<i>Providence,</i>	Hope 47.
Charles Dunsmore Millard,	<i>Tarrytown, N. Y.,</i>	Hope 12.
Herbert Cleveland Miller,	<i>So. Amherst, Ms.,</i>	96 George St. 3.
Harry Richardson Milner,	<i>Moosup, Ct.,</i>	Providence.
George Leland Miner,	<i>Providence,</i>	Slater 3.
Francis Dionysus Monahan,	<i>Lynn, Ms.,</i>	29 Benevolent St 4.
James Alpheus Moore,	<i>Deep River, Ct.,</i>	29 Benevolent St 23.
Philip Wilfred Travis Moxom,	<i>Brookline, Ms.,</i>	Hope 41.
George Burden Munroe,	<i>East Providence,</i>	95 Warren Ave.
Jas. Roberts Decrevi Oldham,	<i>Woonsocket,</i>	Hope 15.
James Orin Otis,	<i>Providence,</i>	University 41.
Charles Dexter Owen Jr.,	<i>Providence,</i>	120 Waterman St.
Thomas Edward Owens,	<i>Philadelphia, Pa.,</i>	72 John St.
Chas. Leslie Fairbanks Paull,	<i>Somerset, Ms.,</i>	96 George St. 3.
William Burgess Peck,	<i>Providence,</i>	Hope 4.
William James Peckham,	<i>Middletown,</i>	12 Congdon St.
William Torrey Peckham,	<i>Providence,</i>	Providence.
Harry Wilder Perkins,	<i>Woonsocket,</i>	University 32.
John Pettibone,	<i>Bristol, Ct.,</i>	University 46.
Adelbert Phinney Jr.,	<i>Edgartown, Ms.,</i>	96 George St. 5.
John Estey Warner Piddock,	<i>Hartford, Ct.,</i>	59 Williams St.
Clinton Everett Potter,	<i>Olneyville,</i>	Olneyville.
William Gallup Randall,	<i>Santa Cruz, Cal.,</i>	3 Angell Place.
Arvid Reuterdaahl,	<i>Providence,</i>	313 Willard Ave.
Francis Bullard Richards,	<i>Providence,</i>	27 Parade St.
Howard Anson Richmond,	<i>Providence,</i>	32 George St.
Joseph Chandler Robbins,	<i>Chester, Vt.,</i>	3 Angell Place.
Edwin Augustus Robinson Jr.,	<i>Attleborough, Ms.,</i>	University 46.
John Davison Rockefeller Jr.,	<i>New York, N. Y.,</i>	Slater 11.
Francis Augustus Rugg,	<i>Perkinsville, Vt.,</i>	Hope 14.
Alvah Howard Sanborn,	<i>Newport,</i>	29 Benevolent St 9.
Wilbur Allen Scott,	<i>Providence,</i>	Slater 3.
Frank Widmer Senior,	<i>Woonsocket,</i>	Hope 15.
Edward Wadsworth Shead,	<i>Eastport, Me.,</i>	Hope 3.

NAME	RESIDENCE	ROOM
Walter Cyrus Sherman,	<i>East Dover, Vt.,</i>	21 Brown St. 11.
Harry Lodowich Shippee,	<i>East Greenwich,</i>	East Greenwich.
George Thurston Spicer,	<i>Providence,</i>	Slater 18.
Harris Elwood Starr,	<i>Providence,</i>	92 Burnett St.
Hiram Austin Stearns,	<i>Manchester, N. H.,</i>	Hope 47.
Edward Delano Stewart,	<i>Mystic, Ct.,</i>	Hope 45.
William Henry Thornley Jr.,	<i>Providence,</i>	16 Winsor St.
Walter Roy Tourtellot,	<i>Olneyville,</i>	Olneyville.
Charles Wayland Towne,	<i>Auburn, Me.,</i>	Slater 17,
James Tucker Jr.,	<i>Providence,</i>	51 Waterman St.
Jos. Whittemore Sweet Tucker,	<i>Edgewood,</i>	Edgewood.
Ernest Edward Tyzzer,	<i>Wakefield,</i>	29 Benevolent St 16.
Howard Harris Utley,	<i>Providence,</i>	University 18.
Howard Mason Van Gelder,	<i>Catskill, N. Y.,</i>	Slater 19.
Gregory Dexter Walcott,	<i>Warren,</i>	Hope 4.
Byron Sprague Watson,	<i>Providence,</i>	283 Benefit St.
Frank Elbert Watson,	<i>Springfield, Ms.,</i>	51 Angell St.
Frank Rowland Wheeler,	<i>Mystic, Ct.,</i>	Hope 21.
Guy Montrose Whipple,	<i>Danvers, Ms.,</i>	University 51.
Charles Ernest White,	<i>Bellows Falls, Vt.,</i>	University 57.
David Mitchell White,	<i>Worcester, Ms.,</i>	59 Williams St.
Roswell Storrs Wilcox,	<i>Providence,</i>	Hope 6.
Wilson Ward Wormelle,	<i>Brighton, Ms.,</i>	29 Benevolent St 21.

SELECT COURSE

NAME	RESIDENCE	ROOM
Theodore Barton Baylies,	<i>New Bedford, Ms.,</i>	University 50.
Ferdinand Augustus Binford,	<i>Pawtucket,</i>	33 Denver St.
Jerome Bradford Bliss,	<i>Pawtucket,</i>	Pawtucket.
George Everett Bolling,	<i>Brockton, Ms.,</i>	29 Angell St.
Thomas Jefferson Brady,	<i>New Bedford, Ms.,</i>	29 Benevolent St. 5.
Arthur Loring Brown,	<i>Providence,</i>	104 Hope St.
Frank Newton Cady,	<i>Providence,</i>	42 Laura St.
James Parker Coombs,	<i>Pleasantdale, Me.,</i>	21 Brown St. 13.
William Cray,	<i>Johnston,</i>	121 Waterman St.
John Whitman Emory,	<i>Bridgton, Me.,</i>	21 Brown St. 13.
Clarence Bertram Gay,	<i>Providence,</i>	59 Williams St.
William Avery Gaylord,	<i>Pawtucket,</i>	Pawtucket.
Louis Joseph Gillon,	<i>Milford, Ms.,</i>	Hope 19.
Charles Wilson Goodwin,	<i>Providence,</i>	369 Weybosset St.
Herbert Manlius Greene,	<i>St. Louis, Mo.,</i>	12 Providence St.
Thaddeus Jerome Hayden,	<i>Providence,</i>	10 Congdon St.
Clinton Decatur Hazel,	<i>Attleborough, Ms.,</i>	Attleborough.
Harry Edwin Lewis,	<i>Providence,</i>	University 57.
Sam Lewisohn,	<i>New York, N. Y.,</i>	332 Benefit St.
Chauncy Avery Lockwood,	<i>Stamford, Ct.,</i>	139 Oxford St.
Dennis Joseph Lowney,	<i>Providence,</i>	Providence.
Charles McCarthy,	<i>Brockton, Ms.,</i>	University 34.
Stewart Alfred McComber,	<i>Globe Village, Ms.,</i>	29 Benevolent St 10.
William Vincent McCready,	<i>Providence,</i>	Hope 47.
James Henry McLaren,	<i>Attleboro' Falls, Ms.,</i>	Attleboro' Falls.
George Harris McLellan,	<i>Abilene, Ks.,</i>	Hope 48.

NAME	RESIDENCE	ROOM
John McManus,	<i>Pawtucket,</i>	96 George St. 2.
Christopher Alexander Murray,	<i>Pawtucket,</i>	279 Cottage St.
Bernard Leo O'Donnell,	<i>Providence,</i>	Hope 19.
William Warren Orswell,	<i>Pawtucket,</i>	Pawtucket.
Charles Willis Park,	<i>Millbury, Ms.,</i>	59 Williams St.
Fordyce Dexter Perkins,	<i>Portland, Me.,</i>	96 George St. 12.
William Copeland Pickersgill,	<i>East Providence,</i>	East Providence.
George Golson Russell,	<i>Cincinnati, O.,</i>	Hope 7.
Arthur Mayhew Stockwell,	<i>Providence,</i>	20 Cooke St.
Albert Greene Utley Jr.,	<i>Providence,</i>	University 18.
Charles Harold Walling,	<i>Providence,</i>	8 Adelaide Av.
Lewis Gates Whittelsey,	<i>Providence,</i>	76 Sackett St.

SUMMARY

Graduates	97	Freshmen	159
Seniors	82	Select Course	38
Juniors	94	Women's College	73
Sophomores	117		
Total			660

SUMMARY BY STATES

Rhode Island	348	Michigan	2
Massachusetts	131	Tennessee	2
New York	42	Kansas	2
Connecticut	26	Virginia	1
New Hampshire	20	Texas	1
Vermont	19	Missouri	1
New Jersey	15	Maryland	1
Maine	10	Alabama	1
Wisconsin	7	Indiana	1
Pennsylvania	7	Kentucky	1
Illinois	5	Switzerland	1
Ohio	4	Japan	1
Georgia	3	Nova Scotia	1
California	3	Russia	1
Minnesota	2	Province of Quebec	1

Women's College

UNDERGRADUATE STUDENTS WHO ARE REGULAR CANDIDATES
FOR BROWN UNIVERSITY EXAMINATIONS, RECEIVING
UNOFFICIAL INSTRUCTION IN COLLEGE STUDIES

JUNIOR CLASS

NAME	RESIDENCE	ROOM
Beatrice Jennie Barker,	<i>Providence,</i>	357 Westminster St.
Isabel Warwick Bliss,	<i>Providence,</i>	235 Waterman St.
Maude Anne Bonner,	<i>Providence,</i>	60 Williams St.
Martha Reynolds Clarke,	<i>Providence,</i>	147 Chestnut St.
Clara Elizabeth Comstock,	<i>Providence,</i>	842 Broad St.
Nettie Serena Goodale,	<i>Pawtucket,</i>	128 M'l Spring Ave.
Emogene Miriam Manning,	<i>Taunton, Ms.,</i>	103 So. Angell St.
Bertha Abby Nichols,	<i>East Greenwich,</i>	East Greenwich.
Grace Church Paull,	<i>Bristol,</i>	Bristol.
Maria Storrs Peck,	<i>Providence,</i>	106 George St.
Elizabeth Robina Peckham,	<i>Bristol,</i>	Bristol.
Anne Tillinghast Weeden,	<i>Providence,</i>	83 Brown St.
Mary Emma Woolley,	<i>Pawtucket,</i>	288 High St.

SOPHOMORE CLASS

Sarah Jane Bullock,	<i>Pawtucket,</i>	208 East Ave.
Mabelle Alice Caffrey,	<i>Providence,</i>	24 Abbott St.
Grace Mabel Cleveland,	<i>East Providence,</i>	59 Broadway.
Margaret May Landon,	<i>Fairmount, Md.,</i>	66 Fountain St.

NAME	RESIDENCE	ROOM
Fanny Pearl Stacy,	<i>East Providence,</i>	East Providence.
Emma Bradford Stanton,	<i>Bristol,</i>	Bristol.
Helen Avonia Thomas,	<i>Providence,</i>	29 Angell St.
Marie Louise Tiftt,	<i>No. Attleboro', Ms.,</i>	No. Attleborough.
Florence Josephine Whiting,	<i>Plainville, Ms.,</i>	Plainville.
Edith Holmes Williston,	<i>Bristol,</i>	Bristol.

FRESHMAN CLASS

Alice Weeden Austin.	<i>Providence,</i>	1275 W'stminst'r St.
Winnie Austin,	<i>East Norton, Ms.,</i>	101 Doyle Ave.
Bertha Caroline Bancroft,	<i>Worcester, Ms.,</i>	80 Congdon St.
Josephine Angell Beane,	<i>Johnston,</i>	Johnston.
Martha Shepard Briggs,	<i>Attleborough, Ms.,</i>	Attleborough.
Edith Maria Brown,	<i>Providence,</i>	170 Prospect St.
Mary Arnold Brownell,	<i>Providence,</i>	73 Prospect St.
Florence Potter Case,	<i>Providence,</i>	89 Somerset St.
Nellie Frances Cooke,	<i>Providence,</i>	18 Maple St.
Edna Frances Davis,	<i>Lincoln,</i>	Central Falls.
Ruth Story Devereux,	<i>Manton,</i>	Manton.
Margarella May Dickson,	<i>Providence,</i>	4 Tobey St.
Clara Angella Gomberg,	<i>Providence,</i>	79 Williams St.
Ida Eilis Hawkins,	<i>East Greenwich,</i>	East Greenwich.
Ruth Bennett Hayes,	<i>Providence,</i>	3 Tobey St.
Minnie Hannah Hough,	<i>Lonsdale,</i>	Lonsdale.
Winifred Manatt,	<i>Providence,</i>	30 Alumni Ave.
Sarah Emma McCready,	<i>Providence,</i>	42 Arch St.
Sarah Ethelyn Merrill,	<i>Central Falls,</i>	Central Falls.
Anna Louise Metcalf,	<i>West Upton, Ms.,</i>	24 Bowen St.
Sarah Mabel Osborn,	<i>Warren,</i>	Warren.
Mabel Louise Potter,	<i>Fairhaven, Ms.,</i>	87 Congdon St.
Linda Richardson,	<i>No. Attleboro', Ms.,</i>	No. Attleborough.
Jessie Goodwin Tiffany,	<i>Barrington,</i>	Barrington Centre.
Caroline Luella Tuthill,	<i>Palmer, Ms.,</i>	Saylesville.
Clara Whitehead,	<i>Providence,</i>	8 Ring St.

SPECIAL STUDENTS

NAME	RESIDENCE	ROOM
Martha Louise Andrews,	<i>Providence,</i>	91 Almy St.
Jessie Loring Barker,	<i>Providence,</i>	93 Melrose St.
Ethel Marian Bonner,	<i>Providence,</i>	60 Williams St.
Cornelia Conant Bronson,	<i>Providence,</i>	26 Cabot St.
Louise Mary Brough,	<i>Providence,</i>	13 Pomona Ave.
Ellen Metcalf Bush,	<i>Providence,</i>	542 Broad St.
Maud Muller Forbush,	<i>Riverside,</i>	Riverside.
Lucy Minerva French,	<i>Southbridge. Ms.,</i>	12 Congdon St.
Alice Louise Gardner,	<i>Warren,</i>	Warren.
Ethel Garvin,	<i>Lonsdale,</i>	Lonsdale.
Bertha Beatrice Grant,	<i>Providence,</i>	7 Parkis Ave.
Minerva Maud Graves,	<i>Providence,</i>	134 Williams St.
Jennie Cooke Hayes,	<i>Providence,</i>	3 Tobey St.
Elizabeth Alvira Jillson,	<i>Woonsocket,</i>	Woonsocket.
Emoline Ketchum,	<i>Providence,</i>	60 Bowen St.
Adella Frances Low,	<i>Providence,</i>	242 Broadway.
Clara Florilla Robinson,	<i>Providence,</i>	Normal School.
Eda May Round,	<i>Providence,</i>	139 Superior St.
Ellen Appleton Stone,	<i>Providence,</i>	280 Waterman St.
Mary Drew Vaughan,	<i>Providence,</i>	20 Marshall St.
Inez Whipple,	<i>Providence,</i>	Normal School.
Bertha Louise Wilson,	<i>Lonsdale,</i>	Lonsdale.
Jessie Wilson,	<i>East Providence,</i>	East Providence.
Cornelia Russell Wright,	<i>Providence,</i>	8 Pallas St.

SUMMARY

Juniors	-	-	-	-	-	-	13
Sophomores	-	-	-	-	-	-	10
Freshmen	-	-	-	-	-	-	26
Select Course	-	-	-	-	-	-	24
Totals	-	-	-	-	-	-	73

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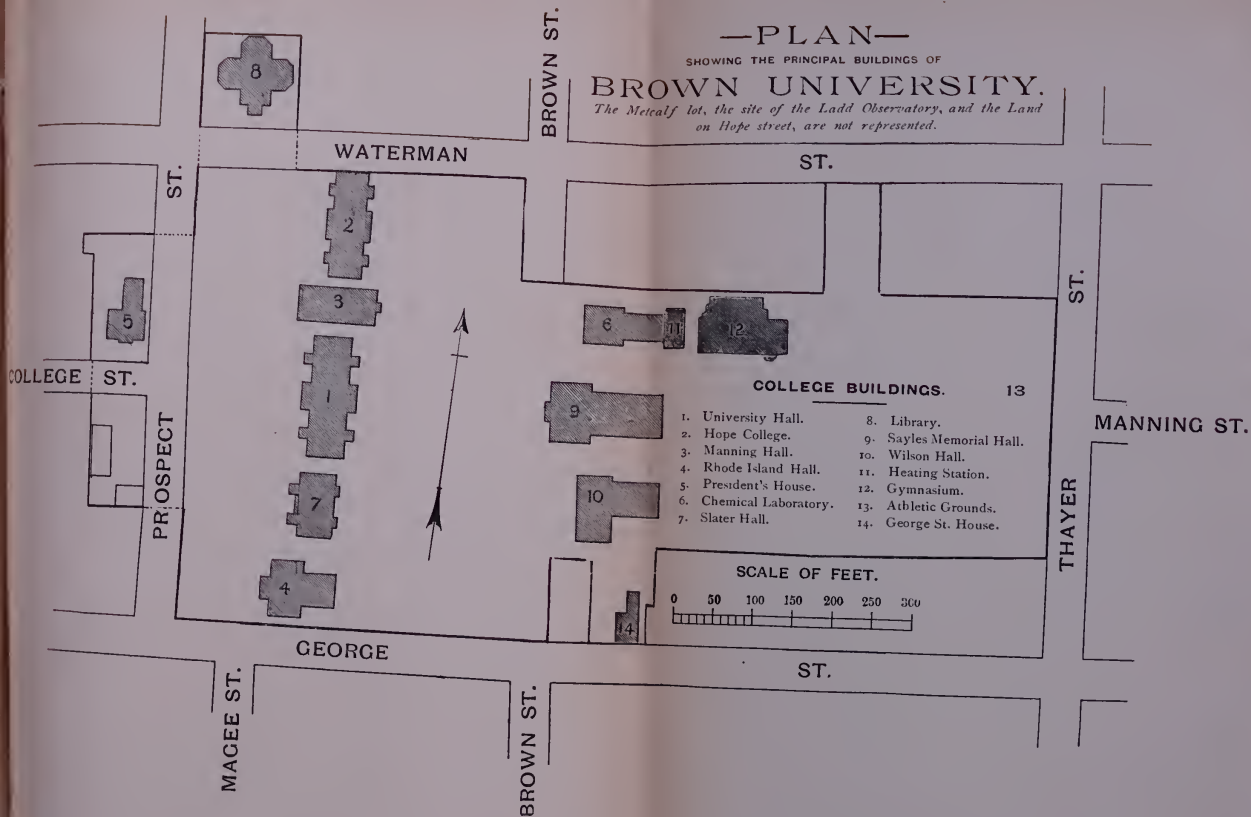
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—PLAN—

SHOWING THE PRINCIPAL BUILDINGS OF

BROWN UNIVERSITY.

The Metcalf lot, the site of the Ladd Observatory, and the Land on Hope street, are not represented.





J. W. F. Jenks

CATALOGUE
OF THE
OFFICERS AND STUDENTS
OF
BROWN UNIVERSITY
1894-95



PROVIDENCE, R. I. :
PRESS OF P. S. REMINGTON & CO., 151 DORRANCE STREET,
JANUARY 1, 1895.

CALENDAR 1894-95

1894	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	1895	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	1895	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
July	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	Jan.	.. 6 13 20 27	.. 7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	July	.. 7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27
Aug.	.. 5 12 19 26	.. 6 13 20 27	.. 7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	Feb.	.. 3 10 17 24	.. 4 11 18 25	.. 5 12 19 26	.. 6 13 20 27	.. 7 14 21 28	1 8 15 22 29	2 9 16 23 30	Aug.	.. 4 11 18 25	.. 5 12 19 26	.. 6 13 20 27	1 8 15 22 29	2 9 16 23 30	3 10 17 24	
Sept.	.. 2 9 16 23 30	.. 3 10 17 24	.. 4 11 18 25	.. 5 12 19 26	.. 6 13 20 27	1 8 15 22 29	2 9 16 23 30	Mar.	.. 3 10 17 24 31	.. 4 11 18 25	.. 5 12 19 26	.. 6 13 20 27	.. 7 14 21 28	1 8 15 22 29	2 9 16 23 30	Sept.	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	
Oct.	.. 7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	Apr.	.. 7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	Oct.	.. 6 13 20 27	.. 7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	
Nov.	.. 4 11 18 25	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	May	.. 5 12 19 26	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	Nov.	.. 3 10 17 24	.. 4 11 18 25	.. 5 12 19 26	.. 6 13 20 27	1 8 15 22 29	2 9 16 23 30	
Dec.	.. 2 9 16 23 30	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	June	.. 2 9 16 23 30	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	Dec.	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	

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College Calendar for 1894-95

1894.

September 5. *Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall, (first Wednesday in September).

September 17, 18. *Monday, Tuesday.* Examination of Delinquents in College Studies.

September 17, 18. *Monday, Tuesday.* Examinations for Admission to College, and to Advanced Standing.

September 19. *Wednesday.* **Academic Year Begins.**

November 29. *Thursday.* Thanksgiving Day. No College Exercises on Thursday, Friday, or Saturday of Thanksgiving week.

December 14-20. *Friday to Thursday.* Term Examinations of College Classes.

Christmas Holidays, from Thursday evening, December 20, 1894 to Wednesday evening, January 2, 1895.

1895.

January 3. *Thursday.* **Second Term Begins.**

January 31. *Thursday.* Day of Prayer for Colleges.

February 22. *Friday.* Washington's Birthday. No College Exercises.

March 16-22. *Saturday to Friday.* Term Examinations of College Classes.

Spring Recess, from Friday evening, March 22, to Monday evening, April 1.

-
- April 2.* *Tuesday.* **Third Term Begins.**
- May 29.* *Wednesday.* Memorial Day. No College Exercises.
- June 7-13.* *Friday to Thursday.* Term examinations of College Classes.
- June 13.* *Thursday.* Hicks Prize Debate.
- June 14.* *Friday.* Class Day.
- June 16.* *Sunday.* Baccalaureate Sermon.
- June 17.* *Monday.* Sophomore Prize Declamation.
- June 18.* *Tuesday.* Annual Meeting of the Phi Beta Kappa Society, at 9.30 A. M.
- June 18.* *Tuesday.* Annual Alumni Meeting, in Manning Hall, at 4 P. M.
- June 19.* *Wednesday.* **One Hundred and Twenty-seventh Annual Commencement** (third Wednesday in June).
- June 20.* *Thursday.* Meeting of the Corporation, in the Old Chapel, University Hall.
- June 20, 21, 22.* *Thursday, Friday, Saturday.* Examinations for Admission to College.
- Summer Vacation.**
- September 4.* *Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall (first Wednesday in September).
- September 16, 17.* *Monday, Tuesday.* Examination of Delinquents in College Studies.
- September 16, 17.* *Monday, Tuesday.* Examinations for Admission to College, and to Advanced Standing.
- September 18.* *Wednesday.* **Academic Year Begins.**

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RISE AND CONSTITUTION OF THE UNIVERSITY

BROWN UNIVERSITY owes its origin to the happy convergence of two separate lines of influence. So early as 1762 a "resolution to erect a college and institute a seminary for the education of youth somewhere in North America" had been formed by the Philadelphia Baptist Association, under whose auspices the Hopewell Academy, in New Jersey, had already been established. As Rhode Island had been settled on the principle of perfect toleration in religious belief, it was decided to apply to its legislature for a charter.

Ever after the residence here, from 1729 to 1731, of the distinguished Dean Berkeley, subsequently Bishop of Cloyne, Newport had been the centre of a pronounced intellectual interest, while the memory of Berkeley's scheme to found a college in America, with the actual erection of colleges in several of the other colonies, made it impossible that the suggestion of a college for Rhode Island should be strange or unwelcome to thoughtful people in that colony. The charter was granted, and reads as follows :

At the General Afsembly of the Governor and Company of the English Colony of Rhode Island and Providence-Plantations in New England in America, begun and held at East Greenwich within & for said Colony by adjournment upon the last Monday of Feb^r one Thousand Seven Hundred and Sixty-four, and in the fourth Year of the Reign of His Most Sacred Majesty George the Third, by the Grace of God, King of Great Britain and so forth

WHEREAS Institutions for liberal Education are highly beneficial to Society, by forming the rising Generation to Virtue Knowledge & useful Literature & thus preserving in the Community a Succession of Men duly qualify'd for discharging the Offices of Life with usefulness & reputation they have therefore justly merited & received the attention & Encouragement of every wise and well regulated State, and whereas a Public School or Seminary erected for that purpose within this Colony, to which the Youth may freely resort for Education in the Vernacular & Learned Languages & in the liberal Arts & Sciences, would be for the general Advantage & Honor of the Government, and whereas

M ^r Gideon Hoxsey	M ^r Ezekiel Gardner	Daniel Jenckes Esq ^r
		Nicholas Tillinghast Esq ^r
M ^r Thomas Eyres	M ^r John Waterman	Nicholas Gardiner Esq ^r
M ^r Thomas Potter Jun ^r	M ^r James Barker Jun ^r	Cole. Josias Lyndon
M ^r Peleg Barker	M ^r John Holmes	Cole Elifha Reynolds
M ^r Edw ^d Thurston	Solomon Drown Esq ^r	
M ^r W ^m Redwood	M ^r Saml Windfor	Peleg Thurston Esq ^r
		Simon Peafe Esq ^r
Joseph Clarke Esq ^r	M ^r Joseph Sheldon	
M ^r John G. Wanton	Charles Rhodes Esq ^r	John Tillinghast Esq ^r
		George Haszard Esq ^r
M ^r Tho ^s Robinson	M ^r Nicholas Brown	Cole Job Bennet
	Cole M^r Barzilla Richmond	Nicholas Easton Esq ^r
	M ^r John Brown	Arthur Fenner Esq ^r

with many other Persons appear as undertakers in the valuable design, & thereupon a Petition has been prefer'd to this Asseembly praying that full Liberty and Power may be granted unto such of them with others as are hereafter mentioned to found endow, order & govern a College or University within this Colony & that for the more effectual execution of this design they may be incorporated into one Body Politic to be known in the Law with the powers priviledges & franchises necessary for the purpose aforesaid—

Now, therefore know ye that being willing to encourage and patronise such an honorable and useful Institution, we the said Governor & Company in General Asseembly convened do for ourselves and our

Succesors in and by virtue of the Power and Authority within the Jurisdiction of this Colony to us by the Royal Charter granted & committed enact grant constitute ordain & declare & it is hereby enacted granted constituted ordained and declared that the

Rev. ^d James Manning	Joshua Babcock Esq. ^{re}	Hon ['] ble Stephen Hopkins Esq. ^{re}
Rev. ^d Rufsel Mason	M ^r . John G. Wanton	Hon ['] ble Joseph Wanton Jun ^r Esq. ^{re}
Col. ^o Elisha Reynolds	Rev. ^d Edward Upham	Hon[']ble John Gardner
Col. ^o Josias Lyndon	Rev. ^d Jeremiah Condry	Hon ['] ble Samuel Ward Esq. ^{re}
Col. ^o Job Bennet	Rev. ^d Marmaduke Brown	Hon ['] ble William Ellery Esq. ^{re}
M ^r . Ephraim Bowen	Rev. ^d Gardner Thurston	“ John Tillinghast Esq. ^{re}
Joshua Clarke Esq. ^{re}	Rev. ^d Ezra Stiles	“ Simon Pease Esq. ^{re}
Cap. ^t Jon ^a . Slade	Rev. ^d John Greaves	“ James Honyman Esq. ^{re}
John Taylor Esq. ^{re}	Rev. ^d John Maxson	“ Nicholas Easton Esq. ^{re}
M ^r . Robert Strettell Jones	Rev. ^d Sam ^l . Winfor	“ Nicholas Tillinghast Esq. ^{re}
Azariah Dunham Esq. ^{re}	Rev. ^d John Gano	“ Darius Sefsons Esq. ^{re}
M ^r . Edward Thurston J ^r .	Rev. ^d Morgan Edwards	“ Joseph Harris Esq. ^{re}
M ^r . Thomas Eyres	Rev. ^d Isaac Eaton	“ Francis Willet Esq. ^{re}
M ^r . Thomas Haszard	Rev. ^d Sam ^l . Stillman	William Logan Esq. ^{re}
M ^r . Peleg Barker	Rev. ^d Sam ^l . Jones	“ Daniel Jencks Esq. ^{re}
		George Hazard Esq. ^{re}
		M ^r . Nicholas Brown Esq. ^{re}
		“ Jeremiah Niles Esq. ^{re}

or such or so many of them as shall within twelve Months from the date hereof, accept of this trust and qualify themselves as herein after directed, and their Succesors shall be for ever hereafter one Body Corporate & Politic in Fact and Name to be known in Law by the Name of Trustees, and Fellows of the College or University in the English Colony of Rhode Island and Providence Plantations in New England in America the Trustees and Fellows at any Time hereafter giving such more particular Name to the College in Honor of the greatest & most distinguished Benefactor or otherwise as they shall think proper which Name so given shall in all Acts, Instrumts and Doings of said Body Politic be superadded to their corporate Name aforesaid, and become a part of their legal Appellation, by which it shall be for ever known and distinguished, and that by the same Name, they and their Succesors chosen by themselves as hereafter prescribed shall and may have perpetual Succesion, and shall & may be Persons able and capable in the Law to Sue, & to be Sued to Plead and

to be impleaded to Answer, and to be Answered unto, to defend and to be defended in all and singular Suits Causes Matters Actions and Doings of what kind soever & also to have take possess purchase acquire or otherwise receive & hold Lands Tenements Hereditaments, Goods Chattles or other Estates of all which they may and shall stand and be seized notwithstanding any Misnomer of the College or the Corporation hereof and by what ever Name or however imperfectly the same shall be described in Gift, Bequests and Assignments provided the true intent of the Assigner or Benefactor be evident. Also the same to grant demise alien lease use manage and improve according to the Tenor of the Donations, and to the Purposes Trusts & Uses to which they shall be seized there of and full Liberty Power & Authority is hereby granted unto the said Trustees & Fellows and their Successors to found a College or University within this Colony for promoting the Liberal Arts and Universal Literature, and with the Monies Estates & Revenues of which they shall from time to time become legally Seized as aforesaid to Endow the same and erect the necessary Buildings & Edfices thereof on such Place within this Colony as they shall think Convenient: And Generally to regulate Order & Govern the same Appoint Officers & make Laws as herein after prescribed & hold use & enjoy all the Liberties Privileges exemptions, Dignities & Immunities enjoy'd by any College or University whatever, And furthermore that the s^d Trustees & fellows & their Successors shall & may forever hereafter have a public Seal to use for all Causes matters & affairs whatever of them and their Successors and the same Seal to alter Break & make anew from time to time at their Will and Pleasure which Seal shall always be deposited with the President or Senior fellow and furthermore by the Authority aforesaid it is hereby enacted Ordained & declared that it is now and at all Times hereafter shall continue to be the unalterable Constitution of this College or University that the Corporation thereof shall consist of two Branches Viz: that of the Trustees & that of the fellowship with distinct seperate & respective powers, and that the Number of the Trustees shall and may be thirty ~~five~~ six of which twenty two shall forever be Elected of the Denomination called Baptists or Antipedobaptis Five shall for ever be elected of the Denomination called Friends or Quakers, four shall for ever be elected of the Denomination called Congregationalists, & ~~four~~ Five shall

for ever be elected of the Denomination called Episcopalians & that the Succesſion in this Branch ſhall be for ever choſen & filled up from the reſpective Denominations in this proportion and according to theſe Numbers which are hereby fixt & ſhall remain to perpetuity imutably the ſame and that the ſaid

Rev. ^d Iſaac Eaton	“ Francis Willet Eſq. ^{re}	Hon ^{ble} Stephen Hopkins Eſq.
Rev. ^d Sam Stillman	“ Daniel Jencks Eſq. ^{re}	Hon ^{ble} Joseph Wanton Jun Eſq.
Rev. ^d Ruſſel Maſon	George Haſzard Eſq. ^{re}	Hon^{ble} John Gardner Eſq.^{re}
Col. ^o Eliſha Reynolds	Nicholas Brown Eſq. ^{re}	Hon ^{ble} Samuel Ward Eſq. ^{re}
Col. ^o Joſias Lyndon	“ Jeremiah Niles Eſq. ^{re}	Hon ^{ble} William Ellery Eſq. ^{re}
Col. ^o Job Bennet	“ Mr John G Wanton Eſq. ^{re}	“ John Tillinghaſt Eſq. ^{re}
M ^r . Ephraim Bowen	“ Mr Joshua Clark Eſq. ^{re}	“ Simon Peaſe Eſq. ^{re}
John Taylor Eſq. ^{re}	“ Rev. ^d Gardner Thurſton	“ James Honyman Eſq. ^{re}
Cap. ^t Jon ⁿ Slade	“ Rev. ^d John Greaves	“ Nicholas Eaſton Eſq. ^{re}
M ^r . Robert Strettell Jones	“ Rev. ^d John Maſſon	“ Nicholas Tillinghaſt Eſq. ^{re}
Azariah Dunham Eſq. ^{re}	“ Rev. ^d John Gano	“ Darius Sefſions Eſq. ^{re}
M ^r . Edward Thurſton Jun. ^r	“ Rev. ^d Sam ^l Winfor	“ Joseph Harris Eſq. ^{re}
M ^r . Peleg Barker		

or ſuch or ſo many of them as ſhall qualify themſelves as aforeſaid ſhall be and they are hereby declared and eſtabliſhed the firſt and preſent Truſtees.— And that the Number of the Fellows incluſive of the Preſident who ſhall always be a Fellow, ſhall and may be Twelve of which eight ſhall be for ever elected of the Denomination called Baptiſts or Antipadobaptiſts, and the reſt indifferently of any or all Denominations and that the

Joshua Babcock Eſq.	Rev. ^d Ezra Stiles	Rev. Edward Upham
M ^r . Thomas Eyres	Rev. ^d Sam ^l Jones	Rev. Jeremiah Condy
M ^r . Thomas Haſzard	Rev. ^d James Manning	Rev. Marmaduke Brown
Hon^{ble} W ^m Logan Eſq. ^{re}		Rev. Morgan Edwards

or ſuch or ſo many of them as ſhall qualify themſelves as aforeſaid. ſhall be, and they are hereby declared the firſt and preſent Fellows and Fellowship to whom the Preſident when hereafter elected who ſhall forever be of the Denomination called Baptiſt or Antepedo Baptiſt ſhall be joined to compleat the Number. And furthermore it is declared and ordained that the Succesſion in both Branches ſhall at all times hereafter be filled up and ſupplied according to theſe Numbers and this eſtabliſhed and invariable Proportion from the reſpective Denominations by the ſeperate Election of both Branches

of this Corporation which shall at all Times fitt and Act by seperate and distinct Powers, and in general in order to the validity and consummation of all Acts there shall be in the Exercise of their respective seperate and distinct Powers, the Joint concurrence of the Trustees and the Fellows by their respective Majorities except in adjudging and conferring the Academical Degrees which shall for ever belong exclusively to the Fellowship as a Learned Faculty And further it is constituted that the Instruction and immediate Government of the College shall for ever be and Rest in the President and Fellows or Fellowship—And furthermore it is ordained that there shall be a General Meeting of the Corporation on the first Wednesday of September Annually within the College Edifice, and untill the same be Built at such Place as they shall appoint to consult Advise and transact the Affairs of the College or University at which or at any other time the Public Commencement may be held and Celebrated and that on any special Emergencies the President with any two of the Fellows or any Three of the Fellows exclusive of the President may convoke and they are hereby empowered to convoke an Assembly of the Corporation on twenty Days Notice and that in all Meetings the Major Vote of those Present of the two Branches respectively shall be deemed their respective Majorities aforesaid, provided that not less than twelve of the Trustees & five of the Fellows be a Quorum of their Respective Branches—That the President or in his Absence the Senior Fellow present shall always be Moderator of the Fellows, that the Corporation at their Annual Meetings once in three Years or oftner in Case of Death or Removal shall and may chose a Chancellor of the University and Treasurer from among the Trustees, and a Secretary from among the Fellows, that the Nomination of the Chancellor shall be in the Trustees whose Office shall be only to Preside as a Moderator of the Trustees and that in his Absence the Trustees shall choose a Moderator for the time being by the Name of Vice Chancellor and at any of their Meetings duly formed as aforesaid shall and may be elected a Trustee or Fellow, or Trustees or Fellows in the Room of those Nominated in this Charter who may refuse to accept or in the Room of those who may Die, Resign or be Removed— And furthermore it is enacted ordained and declared that this Corporation at any of their Meetings regularly convened as aforesaid shall and may Elect and appoint the President and Professors of Languages and the

several Parts of Literature, and upon the demise of him or them or either of them their Resignation or Removal from his or their Office for Misdemeanor Incapacity or Unfaithfulness, for which he or they are hereby declared removeable by this Corporation others to Elect and Appoint in their Room and Stead, & at such meeting upon the Nomination of the Fellows to Elect and Appoint Tutors Stewards Butlers and all such other Officers usually appointed in Colleges or Universities as they shall find necessary and think fitt to appoint for the promoting Liberal Education and the well ordering the Affairs of this College and them or any of them at their discretion to remove and substitute others in their Places, and in case any President Trustee or Fellow shall see Cause to change his Religious Denomination the Corporation is hereby empowered to declare his or their Place or Places Vacant, and may proceed to fill up it or them accordingly as before directed otherwise each Trustee and Fellow not an officer of Instruction shall continue in his Office, during Life or untill Resignation and further in Case either of the Religious denominations shou'd decline taking a Part in this Catholic Comprehensive and liberal Institution the Trustees and Fellows shall and may compleat their Number by electing from their Respective Denominations always preserving their Respective Proportions, herein before prescribed and determined, and all Elections shall be by Ballot, or written Suffrage, and that a Quorum of four Trustees & three Fellows may transact any Business excepting placing the College Edifice, Election of Trustees, President, Fellows and Professors that is to say so that their Acts shall be of Force and Validity untill the next Annual Meeting and no longer——

AND it is further Enacted and Ordained by the Authority aforesaid that each Trustee and Fellow as well those Nominated in this Charter or all that shall hereafter be duly Elected shall previous to their acting in a corporate Capacity take the Engagement of Allegiance prescribed by the Law of this Colony to His Majesty King George the third, His Heirs and Rightful Successors to the Crown of Great Britain which Engagement shall be Administered to the present Trustees and Fellows by the Governor or Deputy Governor of this Colony and to them from time to time hereafter Elected by their Respective Moderators who are hereby empowered to Administer the same——

AND still the more clearly to define and Ascertain the Respective Powers of the two Branches on making and enacting Laws, it is further Ordained and Declared that the Fellowship shall have Power and are hereby impowered from time to time and all times hereafter to make Enact and Publish all such Laws Statutes Regulations and Ordinances with Penalties as to them shall seem meet for the successful Instruction and Government of said College or University not contrary to the Spirit Extent, true Meaning and Intention of the Acts of the British Parliament or the Laws of this Colony, and the same Laws, Statutes and Ordinances to Repeal, which Laws and the Repeals thereof, shall be laid before the Trustees, and with their Approbation shall be of Force and Validity but not otherwise, and further the Trustees and Fellows at their Meetings aforesaid shall ascertain the Salaries of the Respective Officers and Order the Monies assessed on the Students, for Tuition Fines and Incidental Expences to be Collected by the Steward or such other Officer as they shall appoint to Collect the same, and the same with their Revenues and other College Estates in the Hands of the Treasurer to appropriate, in discharging Salaries and other College Debts and the College Accounts shall be Annually Audited and Adjusted in the Meeting of the Corporation and furthermore it is hereby enacted and declared that into this Liberal & Catholic Institution shall never be admitted any Religious Tests but on the Contrary all the Members hereof shall for ever enjoy full free Absolute and uninterrupted Liberty of Conscience and that the Places of Professors, Tutors and all other Officers the President alone excepted shall be free and open for all Denominations of Protestants and that Youths of all Religious Denominations shall and may be freely admitted to the Equal Advantages Emoluments & Honors of the College or University and shall receive a like fair generous & equal Treatment, during their Residence therein, they conducting themselves peaceably and conforming to the Laws and Statutes thereof: And that the Public teaching shall in general Respect the Sciences and that the Sectarian differences of opinions, shall not make any Part of the Public and Classical Instruction, altho' all Religious Controversies may be studied freely examined and explained by the President Professors and Tutors in a personal separate and distinct manner, to the Youth of any or each Denomination and above all a constant Regard be paid to and effectual Care taken of the Morals

of the College and furthermore for the honour & encouragement of Literature we constitute and declare the Fellowship aforesaid a learned faculty and do hereby give grant unto and invest them & their Successors with full Power & Authority, and they are hereby Authorized & impowered by their President & in his Absence by the Senior Fellow or one of the Fellows appointed by themselves at the Anniversary Commencements or at any other times and at all Times hereafter to Admit to & Conferr any & all the Learned Degrees which can or ought to be given and conferred in any of the Colleges & Universities in America ~~Europe & particularly in the University in Cambridge & Edinbrough in Great Britain~~ or any such other Degrees of Literary Honor as they shall devise upon any and all such Candidates and Persons as the President and Fellows or Fellowship shall Judge worthy of the Academical Honors, which Power of conferring Degrees is hereby restricted to the Learned Faculty, who shall or may Issue Diplomas or Certificates of such Degrees or conferr Degrees by Diplomas and Authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Professors as Witnesses and deliver them to the Graduates as Honorable and Perpetual Testimonies, and furthermore for the greater Encouragement of this Seminary of Learning and that the same may be amply endow'd and enfranchised with the same privileges Dignities and Immunities, enjoy'd by the American Colleges and European Universities, we do grant enact Ordain and Declare and it is hereby granted Enacted Ordained and Declared that the College Estate, the Estates Persons and Families of the President and Professors for the Time being lying and being within the Colony with the Persons of the Tutors ~~Graduates~~ and Students during their Residence at the College shall be freed and exempted from all Taxes, serving on Juries and Menial Services, and that the Persons aforesaid shall be exempted from bearing Arms Impresses and Military Services except in Case of an Invasion And furthermore for establishing the perpetuity of this Corporation and in case that at any time hereafter through oversight or otherwise through misapprehensions and mistaken Constructions of the Powers Liberties and Franchises herein contained any Laws should be enacted or any matters done and transacted by this Corporation contrary to the tenor of this Charter it is hereby enacted ordained and declared that all such Laws Acts and Doings shall be in themselves null and

void : yet nevertheless the same shall not in any Courts of Law or by the Gen^l Assembly be deemed taken interpreted or adjudged into an avoidance, defeazance or forfeiture of this Charter but that the same shall be and remain unhurt inviolate and entire unto the said Corporation in perpetual Succession, which Corporation may at all times and forever hereafter proceed & continue to Act; and all their Acts conformable to the Powers, tenor, true intent and Meaning of the Charter shall be and remain in full force and validity, the nullity and avoidance of any such illegal Acts to the Contrary in any wise notwithstanding—and lastly, We the Governor and Company aforesaid do for ourselves and our Successors, forever hereby enact, Grant & confirm unto the said Trustees and Fellows and to their Successors that this Charter of Incorporation and every part thereof shall be good and available in all things in the Law according to our true Intent and meaning, and shall be construed, reputed & adjudged in all cases most favorably on the behalf and for the best benefit and behoof of the said Trustees and Fellows and their Successors so as most effectually to answer the valuable Ends of this usefull Institution—

In full Testimony of which Grant and of all the Articles and matters therein contained, the said Governor & Company do hereby order that this Act shall be Signed by the Governor and Secretary and Sealed with the publick Seal of this Colony and Registered in the Colonys Records and that the Same or an exemplification thereof shall be a sufficient Warrant to the said Corporation to hold, use and exercise all the Powers, Franchises and Immunities herein contained—

March 2^d 1764

To the House of Mag^{sts}

Gen^l Resolvd that the aforewritten Pass as an Act of this Assembly

Noted & passd Nemine Contradicente

& ord^d Josias Lyndon Clerk

In the Upper House

Read on the Third and concurred Nemine Contradicente

By Ord. Henry Ward Secr'y

NOTE.—The above is in all respects an exact reproduction of the original Copy of the Charter in the office of the Secretary of the State of Rhode Island, in Providence.

On September 4, 1782, the Corporation omitted from the engagement to be taken by new members the acknowledgment of allegiance to the British Crown, at the same time ordering broken the old seal of the College, which contained the busts of the king and queen of Great Britain. The present seal, of which this volume bears the imprint, was adopted on September 3, 1834.

In the spring of 1764, Rev. James Manning, a recent graduate of the College of New Jersey, opened a Latin School at Warren, Rhode Island, as a step preparatory to the work of college instruction. In September 1765, he was formally appointed by the Corporation, "President of the College and Professor of Languages and other branches of learning, with full power to act in these capacities at Warren or elsewhere." The first Commencement was held at Warren, in September, 1769. In the spring of 1770 the College was moved to Providence. The corner-stone of the first building, still standing as the venerable University Hall, was laid on the fourteenth of May in that year. During the Revolutionary War college studies were suspended, and the building was used by the American and French forces for barracks and a hospital. At its meeting on Thursday, September 6, 1804, in view of distinguished beneficence to the College on the part of Mr. Nicholas Brown, the Corporation, under the power conveyed by the charter to change the title, voted, "That the College be known in all future time by the name of BROWN UNIVERSITY, in Providence, in the State of Rhode Island and Providence Plantations."

In 1863, the General Assembly of the State of Rhode Island passed an Act, subject to the consent of the Corporation, which was at once cordially given, limiting the exemption from taxation of the estates, persons and families of the President and Professors, to the "amount of ten thousand dollars for each of such officers, his estates, person and family included."

CONDITIONS OF ADMISSION TO THE UNIVERSITY

ADMISSION TO SELECT COURSES

The instruction furnished by the University is open to all young men of good character who possess the maturity and seriousness of purpose to profit by it. While every student who can conveniently do so is for his own good urged to matriculate for some one of the various degrees, this is by no means necessary; and such as do not do it are no less welcome to the advantages of the University than are candidates for degrees. It is the policy of the University to encourage all faithful students who enter for short periods. For such, special pains are taken to arrange profitable courses of study covering single terms, two terms, a year, or two years, according to circumstances. Each course of this kind must have the approval of the Faculty, and, except in special cases, will require attendance in the class-room for at least sixteen hours a week. The candidate must be familiar with the subjects preliminary to the studies which he proposes to pursue. He must sustain creditable examinations in all his college studies at the close of each term. Idle and worthless students will not be permitted to abuse the above facilities for special study as a means of preserving a merely nominal connection with the University. Upon later pages of this Catalogue are exhibited a few groups of courses specially appropriate for students who intend to enter professional schools. While primarily meant to guide candidates for degrees, these minor curricula, faithfully pursued, afford admirable preparation for professional study to such as find it for any reason impossible to earn collegiate degrees. On leaving the University, special students who desire them receive formal certificates of their attainments.

ADMISSION TO COURSES LEADING TO DEGREES

The regular examinations for admission to the FRESHMAN CLASS take place on Thursday, Friday, and Saturday, of Commencement week, June 20, 21, and 22, 1895, beginning at 9 o'clock A. M. on Thursday. *Candidates must be in attendance during the three days.*

These examinations occur in Rhode Island Hall, *where all the candidates are to assemble on Thursday at 8.45 A. M., to be registered.*

The order of the examinations will be :

THURSDAY, JUNE 20.

Greek, South Room, from 9 A. M. to 12.30 P. M.

Latin, North Room, from 2.30 to 6 P. M.

History, for B. P. candidates, North Room, from 9 A. M. to 12.30 P. M.

FRIDAY, JUNE 21.

Mathematics, South Room, from 8.15 A. M. to 12.30 P. M.

French, South Room, from 3 to 5 P. M.

German, North Room, from 3 to 5 P. M.

SATURDAY, JUNE 22.

English, South Room, from 9 to 11 A. M.

There will be, as follows, a second examination in each of the above branches, on Monday and Tuesday, September 16 and 17, 1895. *Applicants must be in attendance on both days.*

MONDAY, SEPTEMBER 16.

German, South Room, R. I. Hall, from 9 to 11 A. M.

French, North Room, R. I. Hall, from 9 to 11 A. M.

English, South Room, R. I. Hall, from 11.30 A. M. to 1 P. M.

Mathematics, North Room, R. I. Hall, from 2 to 6 P. M.

TUESDAY, SEPTEMBER 17.

Latin, North Room, R. I. Hall, from 8 to 10.30 A. M.

Greek, South Room, R. I. Hall, from 11 A. M. to 1.30 P. M.

For admission to **ADVANCED STANDING**, unless coming from other Colleges and those of high standing, candidates are examined in the studies already pursued by the respective classes which they propose to enter. These examinations for 1895 will be held on Monday and Tuesday, September 16 and 17. Students must report at the Registrar's Office at 9 A. M. on Monday, September 16.

No student can be admitted as a candidate for matriculation unless he brings suitable testimonials of a good moral character. If from another College, he must also present a certificate of his standing in the College which he has left, and of regular dismissal from it.

If desired, examinations will be appointed in cities remote from Providence. Correspondence on this subject should be addressed to the Registrar of the University.

Pupils from schools of known excellence are admitted to the Freshman Class without examination, on the certificates [not diplomas] of the Principals of these schools. Upon application by the Principal of any school from which pupils are received in this manner, the University furnishes blank forms for these certificates.

Qualified members of the Freshman Class are matriculated at the beginning of the second term. Till matriculation, all candidates for degrees, however admitted, are regarded as on probation.

I, Entrance Examinations to be Passed by Every Candidate for a Degree.

Every candidate for a degree in Brown University, whether Bachelor of Arts, Bachelor of Philosophy, Bachelor of Science, Civil Engineer or Mechanical Engineer, is before entering College, required to pass examination upon a certain amount of Mathematics, upon a certain amount of English, and upon a certain amount either of French or of German.

Of candidates for the degree of Civil Engineer or for that of Mechanical Engineer, no other entrance examinations are required.

The entrance examinations which all candidates for degrees must pass are the following:

A. Mathematics. 1, Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2, Plane Geometry.

B. English. The examination in English consists of two parts, one to test the pupil's General Reading, the other to bring out results of their more careful Study and Practice in this branch. The entire examination occupies not less than two hours.

Part I. Reading and Practice. The examination for 1895 will be upon the following works. Shakspeare's Twelfth Night, the Sir Roger de Coverley Papers in the Spectator, Irving's Sketch Book, Scott's Abbott, Webster's First Bunker Hill Oration, Macaulay's Essay on Milton, and Longfellow's Evangeline.

The candidate must exhibit a good general knowledge of the subject-matter of each work, and answer simple questions on the lives of the authors. The usual form of examination is the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number, perhaps ten or fifteen, named in the examination paper. The treatment of these topics is to test his power of clear and accurate expression. In place of a part or the whole of this exercise, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading.

In 1896 the books for this portion of the examination will be Shakspeare's A Midsommer Night's Dream, Defoe's History of the Plague in London, Irving's Tales of a Traveller, Scott's Woodstock, Macaulay's Essay on Milton, Longfellow's Evangeline and George Eliot's Silas Marner.

1897, Shakspeare's As You Like It, Defoe's History of the Plague in London, Irving's Tales of a Traveller, Hawthorne's Twice Told Tales, Longfellow's Evangeline and George Eliot's Silas Marner.

1898, Milton's Paradise Lost, Books I. and II., Pope's Iliad, Books I. and XXII., The Sir Roger de Coverley Papers in the Spectator, Goldsmith's The Vicar of Wakefield, Coleridge's Ancient Mariner, Southey's Life of Nelson, Carlyle's Essay on Burns, Lowell's Vision of Sir Launfal and Hawthorne's The House of the Seven Gables.

Part II. Study and Practice. This portion of the examination for 1895 will be upon the following works: Shakspeare's The Merchant of Venice, Milton's L'Allegro, Il Penseroso, Comus and Lycidas and Macaulay's Essay on Addison. This section of the examination requires a more careful study of each of the works named. It involves subject-matter, form, and structure, and also more particularly than Part I., tests the candidate's ability to express his knowledge with clearness and accuracy.

In 1896 the books for this part of the examination will be: Shakspeare's The Merchant of Venice, Milton's L'Allegro, Il Penseroso, Comus and Lycidas and Webster's First Bunker Hill Oration.

1897, Shakspeare's The Merchant of Venice, Burke's Speech on Conciliation with America, Scott's Marmion and Macaulay's Life of Samuel Johnson.

1898, Shakspeare's *Macbeth*, Burke's *Speech on Conciliation with America*, De Quincey's *The Flight of a Tartar Tribe* and Tennyson's *The Princess*.

NOTE: Reading parallel and subsidiary to all the above should be encouraged. Students are also recommended to commit to memory as much English poetry as possible. The essentials of Grammar must not be neglected, and no candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

C. French or German. Each candidate for any degree whatever must pass examination either upon a certain amount of French or upon a certain amount of German, but a candidate may present the one or the other of these languages according to his wish. Students who present German for entrance must continue German during the Freshman year, and also take French in their Sophomore year.

For candidates who offer **French** the requirements are as follows:

1 Proficiency in Elementary French Grammar, implying especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs, and of the more usual irregular verbs, such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire*, and *craindre*.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work necessarily depends. Mastery of Professor Whitney's Brief French Grammar will be regarded as sufficient.

2 Ability to translate simple prose at sight.

It is believed that the required facility can be gained by reading concurrently with the work of the grammar from two hundred to four hundred duodecimo pages out of at least three dissimilar works, but care should be taken not to read works assigned in the college courses.

3 Ability to pronounce French and to recognize French words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the French texts used in the class-room.

For students who offer **German** as a preparatory study the requirements are as follows: 1 Proficiency in Elementary German Grammar, implying especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and

pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions, the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends.

Mastery of Professor Whitney's *Brief German Grammar* will be regarded as sufficient.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

It is believed that the required facility can be gained by reading concurrently with the work in the grammar, two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems, but care should be taken not to read the works assigned in the college courses.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the German texts used in the class-room.

Candidates for the degree of Civil Engineer or for the degree of Mechanical Engineer are required to pass only the above entrance examinations.

II, Additional Entrance Examinations to be passed by Certain Candidates

A. Additional Entrance Examinations to be passed by Candidates for the Degree of Bachelor of Arts. Besides the foregoing examinations in Mathematics, English, and French or German, candidates for admission to the courses leading to this degree are examined in the following subjects. Real equivalents will be received for any of the works mentioned:

I. Greek. 1. Authors: Xenophon's *Anabasis* entire, or four books of the *Anabasis* and three of Homer, regard being had not only to language but to subject-matter as well. Two books of the *Hellenica* may be offered in place of a like part of the *Anabasis*; and preparation in Homer may be in either *Iliad* or *Odyssey*. 2. Grammar: A familiar knowledge of inflection, word-formation and ordinary syntax. 3. Composition: The first twenty-five exercises of Jones's *Composition*, or Allinson's *Composition* as far as Part III, or Collar & Daniell's entire. 4. History: The general history of Greece to the death of Alexander.

Candidates are expected to be able to translate at sight simple Attic prose, unusual words being defined, and to write in Greek simple connected narrative based upon the *Anabasis* or the *Hellenica*.

II. Latin. 1. Caesar, Gallic War, books i-iv, or books i-iii and Sallust's *Catiline*, with questions on the subject-matter and on grammar. 2. Ovid, twenty-five hundred lines. 3. Cicero, the orations against *Catiline*, and the oration for *Archias*, with questions, as on Caesar. 4. Vergil, *Aeneid*, books i-vi, or *Aeneid*, books i-v and the *Eclogues*, with questions on the subject-matter and on prosody. 5. Translation, at sight, of ordinary passages from Caesar, Cicero's *Orationes*, Vergil's *Aeneid*, and Ovid's *Metamorphoses*, with questions on grammar, prosody, history and antiquities, suggested by the passages assigned. 6. Translation into Latin of simple English sentences. 7. Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 8. Outline of Roman Geography, and of Roman History to the end of the reign of Marcus Aurelius. It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both oral and written, passages prepared by the teachers on the basis of the prose authors read.

In pronouncing Latin, it is recommended that *ā* be pronounced as in *father*, *ă* as the *a* in *Cuba*; *ē* as in *prey*, *ě* as in *men*; *ī* as in *machine*; *ĩ* as in *cigar*; *ō* as in *old*, *ö* as in *obey*; *ū* as in *rule*, *ũ* as in *full*; *j* as *y* in *yard*; *c* always as *k* in *king*; *g* always as *g* in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

PRELIMINARY EXAMINATIONS IN THE CLASSICS

In the studies named below, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. These examinations will occur, for 1895, on Thursday, June 20, and then only. They will be held in the *South Room of Rhode Island Hall*, and in the following order:

Greek, from 9 A. M. to 12:30 P. M.

Latin, from 2:30 to 5:30 P. M.

The subjects will be: I, **In Greek**: 1. Greek Grammar. 2. Three books of Xenophon's *Anabasis*. II, **In Latin**: 1. Latin Grammar. 2. Caesar, or Caesar and Sallust, as above. 3. Translation into Latin of simple sentences. 4. Ovid, or Cicero, or Vergil, as above,

B. Additional Entrance Examinations to be passed by Candidates for the Degree of Bachelor of Philosophy. Besides the examinations in Mathematics, English, and French or German specified on pages 00. Candidates for the degree of Bachelor of Philosophy are examined as follows :

I. Latin. 1. Caesar, Gallic War, books i-iv, or books i-iii and Sallust's Catiline. with questions on the subject-matter and on grammar. 2. Ovid, twenty-five hundred lines. 3. Cicero, the Orations against Catiline, and the oration for Archias, with questions, as on Caesar. 4. Vergil, Aeneid, books i-vi, or Aeneid, books i-v and the Eclogues, with questions on the subject-matter and on prosody. 5. Translation, at sight, of ordinary passages from Caesar, Cicero's Orations, Vergil's Aeneid, and Ovid's Metamorphoses, with questions on grammar, prosody, history and antiquities, suggested by the passages assigned. 6. Translation into Latin of simple English sentences. 7. Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 8. Outlines of Roman Geography.

It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both oral and written, passages prepared by the teachers on the basis of the prose authors read.

In pronouncing Latin, it is recommended that *ā* be pronounced as in *father*, *ă* as the *a* in *Cuba*; *ē* as in *prey*, *ě* as in *men*; *ī* as in *machine*; *ĩ* as in *cigar*; *ō* as in *old*, *õ* as in *obey*; *ū* as in *rule*, *ũ* as in *full*; *j* as *y* in *yard*; *c* always as *k* in *king*; *g* always as *g* in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

Latin, Minor Requirement. In case of pupils nineteen years of age or over, who offer proof of attainments in general subjects such as a diligent and competent student would derive from two years full attendance at a good high school or academy, the above requirement in Latin is reduced to five books of Caesar or its equivalent in Cicero, Vergil, or other standard authors. Students offering only this smaller amount of Latin cannot, however, pursue any of the Latin courses in College.

Substitute Requirement. Instead of the Latin specified above, whether the full or the minor requirement, candidates for the degree of Bachelor of Philosophy may offer **Greek**. Candidates presenting Greek as a preparatory study will be examined in all the Greek subjects specified on page 40. Students fulfilling this requirement usually wish to pursue Greek in College and are permitted to do so.

II. History. 1. The general history of Greece to the death of Alexander. 2. Roman history to the end of the reign of Marcus Aurelius.

NOTE: This requirement affects only the class entering College in 1895.

C. Additional Entrance Examinations to be passed by Candidates for the Degree of Bachelor of Science. Besides the examination in Mathematics, English, and French or German specified on pages 37-40, candidates for the degree of Bachelor of Science are examined as follows:

I. Mathematics. 1. Solid and Spherical Geometry. 2. Plane Trigonometry, with the use of logarithmic and trigonometric tables.

II. Latin. Five books of Caesar, or the equivalent thereof in Cicero or in Vergil. *Option:* If the candidate prefer he may present *both* the French and the German specified on pages 39, 40, in which case no examination in Latin is required.

III. History. 1. The general history of Greece to the death of Alexander. 2. Roman History to the end of the reign of Marcus Aurelius.

Candidates for the degree of Civil Engineer or for that of Mechanical Engineer are required to pass no entrance examinations except those in Mathematics, English, and French or German, specified on pages 37-40.

THE COURSES OF INSTRUCTION *

The courses of instruction for undergraduates form a system of studies partly required and partly elective. The studies of the Freshman year are nearly all required, the main exception being that candidates for the degree of Bachelor of Philosophy have a choice of courses according as they do or do not wish to pursue the study of an ancient language. The required studies of the Freshman year are selected for their disciplinary value, that the student may the more profitably pursue those, whatever they may be, of the subsequent years. During the last three years large liberty in the choice of studies is allowed, particularly in the case of candidates for the degrees of Bachelor of Arts and Bachelor of Philosophy. The required studies for these degrees during these years are restricted to English, History, and Philosophy, some acquaintance with which is deemed necessary for every student who is to receive a collegiate degree. Candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer are allowed less freedom of election, in order that they may thoroughly master the branches necessary for the most perfect discipline in their respective departments.

The elective studies, which are very numerous, are so placed in the curriculum as to give all the freedom of choice which the necessary limitations of the schedule of lectures admit. In arranging this schedule a number of parallel

* Instruction for graduate students is treated by itself in a later paragraph. A special circular relating to the same may be had on application to the Registrar.

courses, each unitary and progressive and extending through the last three years, are made available. Every student is advised in selecting his studies to adopt, in the main, one of these courses.

Attention is here directed to the later pages of this Catalogue where "Courses Suggested as Desirable for Students Preparing for Professions" are set forth.

In addition to the regular courses of instruction, special honor courses are offered, which are open, under certain conditions, to students willing to do large extra work in their particular departments. These honor courses, fully described in a later paragraph, mainly consist of special reading, supplemented by problems and essays. Examinations in them are held at the option of the several professors.

THE COURSES OF INSTRUCTION

ARRANGED ACCORDING TO YEARS AND TERMS

For Candidates for the Degree of Bachelor of Arts

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Greek 1, Latin 1, French 1, Mathematics 1, General Lecture. Military Drill.	Greek 2, Latin 2, French 2, Mathematics 3, Rhetoric 8, Military Drill, Gymnasium.	Greek 3, Latin 3, French 3, Mathematics 2, Rhetoric 9, Military Drill.

SOPHOMORE YEAR

Rhetoric 2, Rhetoric 19, German 1, Military Drill, Electives, nine hours.	Rhetoric 3, Rhetoric 20 or 27, German 2, Military Drill, Gymnasium, Electives, nine hours.	Rhetoric 4, Rhetoric 21 or 28, German 3, Military Drill, Electives, nine hours.
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JUNIOR YEAR

Philosophy 2, Rhetoric 22, History 1, Gymnasium, Electives, nine hours.	Philosophy 3, Rhetoric 23, History 2, Gymnasium, Electives, nine hours.	Philosophy 19, Rhetoric 24, Electives, twelve hours.
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SENIOR YEAR

The work of the Senior year, with the exception of Gymnasium practice, consists entirely of elective studies, fifteen hours per week.

For Candidates for the Degree of Bachelor of Philosophy

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 1, French 1 or German 4, General Lecture, Military Drill.	Mathematics 3, French 2 or German 5, Rhetoric 8, Military Drill, Gymnasium.	Mathematics 2, French 3 or German 6, Rhetoric 9, Military Drill.

And two of the following groups :

A { Botany 1, Drawing 2,	{ Botany 2, Drawing 3,	{ Botany 3, Drawing 4,
B Drawing 1,	Drawing 5,	Drawing 6,
C { Rhetoric 2, Rhetoric 19,	{ Rhetoric 3, Rhetoric 20 or 27.	{ Rhetoric 4, Rhetoric 21 or 28,
D Greek 1,	Greek 2,	Greek 3,
E Latin 1.	Latin 2.	Latin 3.

SOPHOMORE YEAR

Rhetoric 2, Rhetoric 19, German 1, Military Drill, Electives, nine hours*.	Rhetoric 3, Rhetoric 20 or 27, German 2, Military Drill, Electives, nine hours*, Gymnasium.	Rhetoric 4, Rhetoric 21 or 28, German 3, Military Drill, Electives, nine hours*.
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JUNIOR YEAR

Philosophy 2, Rhetoric 22, History 1, Gymnasium, Electives, nine hours.	Philosophy 3, Rhetoric 23, History 2, Gymnasium, Electives, nine hours.	Philosophy 19, Rhetoric 24, Electives, twelve hours.
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SENIOR YEAR

The work of the Senior year, with the exception of Gymnasium practice, consists entirely of elective studies, fifteen hours per week.

* Students who carry Group A during Freshman year will carry twelve or thirteen hours of electives during Sophomore year.

For Candidates for the Degree of Bachelor of Science

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 4, 5, Mathematics 9, French 1 or German 4, General Lecture, Military Drill.	Mathematics 6, Mathematics 10, French 2 or German 5, Rhetoric 8, Military Drill, Gymnasium.	Mathematics 7, Mathematics 12, French 3 or German 6, Rhetoric 9, Military Drill.

And two of the following groups :

A { Botany 1, Drawing 2,	{ Botany 2, Drawing 3, Drawing 5,	{ Botany 3, Drawing 4, Drawing 6,
B Drawing 1.		
C { Rhetoric 2, Rhetoric 19,	{ Rhetoric 3, Rhetoric 20 or 27,	{ Rhetoric 4, Rhetoric 21 or 28,
D Greek 1,	Greek 2,	Greek 3,
E Latin 1,	Latin 2.	Latin 3.

SOPHOMORE YEAR

Rhetoric 2, Rhetoric 19, German 1, Physics 1, Chemistry 1, Military Drill, And one elective.	Rhetoric 3, Rhetoric 20 or 27, German 2, Physics 2, Chemistry 2, Military Drill, Gymnasium, And one elective.	Rhetoric 4, Rhetoric 21 or 28, German 3, Physics 4, Chemistry 3, Military Drill, And one elective.
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JUNIOR YEAR

Philosophy 2, Rhetoric 22, History 1, Gymnasium, And three electives.	Philosophy 3, Rhetoric 23, History 2, Gymnasium, And three electives.	Philosophy 19, Rhetoric 24, And four electives.
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SENIOR YEAR

The work of the Senior year, with the exception of Gymnasium practice, consists of fifteen hours of electives per week, chosen from the following list :

Elective Courses for Candidates for the Degree of Bachelor of Science

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 13 So.	Mathematics 8 So.	Mathematics 11 So.
“ 14 Jr. Sr.	“ 15 Jr. Sr.	“ 16 Jr. Sr.
Civil Engineering 1	Civil Engineering 2	Civil Engineering 3
So. Jr.	So. Jr.	So. Jr.
French 4 So.	French 5 So.	French 6 So.
German 4 So. Jr.	German 5 So. Jr.	German 6 So. Jr.
Botany 1 So. Jr.	Botany 2 So. Jr.	Botany 3 So. Jr.
Comp. Anatomy 12 So.	Comp. Anatomy 6 So.	Comp. Anatomy 1 So.
Jr.	Jr.	Jr.
Mechanics 3 Jr. Sr.	Mechanics 4 Jr. Sr.	Mechanics 6 Jr. Sr.
“ 7 Sr.	“ 8 Sr.	“ 9 Sr.
Astronomy 1 Jr.	Astronomy 3 Jr.	Astronomy 4 Jr.
Chemistry 4 Jr.	Chemistry 5 Jr.	Chemistry 6 Jr.
Physics 5 Jr.	Physics 9 Jr.	Physics 10 Jr.
Spanish 1 Jr. Sr.	Spanish 2 Jr. Sr.	Spanish 3 Jr. Sr.
Italian 1 Jr. Sr.	Italian 2 Jr. Sr.	Italian 3 Jr. Sr.
History 4 Jr. Sr.	History 5 Jr. Sr.	History 6 Jr. Sr.
“ 7 Sr.	“ 8 Sr.	“ 9 Sr.
Philosophy 5 Sr.	Philosophy 6 Sr.	Philosophy 15 Sr.
“ 8 Sr.	“ 9 Sr.	“ 10 Sr.
English 4 Sr.	English 5 Sr.	English 6 Sr.
Political Science 1 Sr.	Political Science 2 Sr.	Political Science 3 Sr.
“ Economy 1 Sr.	“ Economy 2 Sr.	“ Economy 3 Sr.
Comp. Anatomy 3 Sr.	Comp. Anatomy 4 Sr.	Anthropology 1 Sr.
Geology 1 Sr.	Geology 2 Sr.	Meteorology 1 Sr.

For Candidates for the Degree of Civil Engineer *

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 1, French 1 or German 4, Drawing 2, Drawing 1, Drawing 29, Rhetoric 2, Rhetoric 19, General Lecture, Military Drill.	Mathematics 3, French 2 or German 5, Drawing 3, Drawing 5. Drawing 30, Rhetoric 3, Rhetoric 20 or 27, Military Drill, Gymnasium.	Mathematics 2, French 3 or German 6, Drawing 4, Drawing 6, Drawing 31, Rhetoric 4, Rhetoric 21 or 28, Military Drill.

SOPHOMORE YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
German 1† or French, Mathematics 9, Physics 1, Civil Engineering 1, Chemistry 1, Drawing 7, Military Drill.	German 2† or French, Mathematics 10, Physics 2, Civil Engineering 2, Chemistry 2, Civil Engineering 4, Military Drill, Gymnasium.	German 3† or French, Mathematics 12, Physics 4, Civil Engineering 3, Chemistry 3, Civil Engineering 8, Military Drill.

JUNIOR YEAR

Philosophy 2, Mechanics 3, Mathematics 13, Astronomy 1, Mech. Engineering 2, Civil Engineering 5, Gymnasium.	Philosophy 3, Mechanics 4, Mathematics 14, Astronomy 3, Physics 12, Civil Engineering 6, Gymnasium.	Philosophy 19, Mechanics 6, Civil Engineering 12, Astronomy 4, Mech. Engineering, 2, Civil Engineering 7.
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SENIOR YEAR

Civil Engineering 17, Civil Engineering 13, Mechanics 7, Geology 1, Physics 5.	Civil Engineering 10, Civil Engineering 14, Mechanics 8, Geology 2, Physics 9.	Civil Engineering 11, Civil Engineering 18, Civil Engineering 15, Civil Engineering 16, Thesis.
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* The course for the class of 1895 will be as given in the Catalogue of 1893-94.

† Students who pursue French 1, 2, 3 during Freshman year must take German 1, 2, 3 during Sophomore year. Those who pursue German 4, 5, 6, during Freshman year must take French during Sophomore year. This note applies also to the courses for all other degrees.

For Candidates for the Degree of Mechanical Engineer

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 1, Drawing 1, Drawing 2, French 1 or German 4, Rhetoric 2, Rhetoric 19, General Lecture, Military Drill.	Mathematics 3, Drawing 5, Drawing 3, French 2 or German 5, Rhetoric 3, Rhetoric 20 or 27, Military Drill, Gymnasium.	Mathematics 2, Drawing 6, Drawing 4, French 3 or German 6, Rhetoric 4, Rhetoric 21 or 28, Military Drill.

SOPHOMORE YEAR

Mathematics 9, Drawing 7, Mech. Engineering 1, Chemistry 1, Physics 1, German 1 or French. Military Drill.	Mathematics 10. Drawing 8, Mech. Engineering 10, Chemistry 2, Physics 2, German 2 or French. Military Drill. Gymnasium.	Mathematics 12. Drawing 9, Mech. Engineering 11, Chemistry 3, Physics 4, German 3 or French, Military Drill.
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JUNIOR YEAR

Philosophy 2, Mathematics 13, Mechanics 3, Drawing 10, Mech. Engineering 12, Physics 5, Gymnasium.	Philosophy 3, Mathematics 14, Mechanics 4, Drawing 11, Mech. Engineering 13, Physics 9, Gymnasium.	Philosophy 19. Mech. Engineering 9, Mechanics 6, Drawing 12, Mech. Engineering 14, Physics 10.
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SENIOR YEAR

Mechanics 7, Mech. Engineering 3, Mech. Engineering 6, Drawing 27*, Mech. Engineering 15, Gymnasium.	Mechanics 8, Mech. Engineering 4, Mech. Engineering 7, Drawing 28*, Mech. Engineering 16, Gymnasium.	Thesis Work. Mech. Engineering 5, Mech. Engineering 8, Original Design.
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*Students desiring to pursue Electrical Work, may if they so elect, substitute Physics 3, 11, and 15 for Drawing 27 and 28.

ELECTIVE COURSES

First Term

Philosophy 20 Sr.	Political Science 5 Sr.	Drawing 15 So. Jr. Sr.
" 8 Sr.	Elementary Law 1 Jr.	" 27 Sr.
" 11 Sr.	Sr.	" 21 So. Jr. Sr.
" 5 Sr.	Social Science 1 Jr. Sr.	" 24* So. Jr.
" 29 Sr.	Political Economy 1 Jr.	Sr.
Greek 4 So.	Sr.	Civil Engineering 1
" 7* Jr. Sr.	Political Economy 4	So. Jr. Sr.
" 16 Jr. Sr.	Sr.	Civil Engineering 5 Jr.
" 10 Jr. Sr.	German 4 Jr. Sr.	Sr.
" 22 So. Jr. Sr.	" 7 Sr.	Civil Engineering 17
" 13* Sr.	" 16 Jr. Sr.	Sr.
" 25 Sr.	" 10 Sr.	Civil Engineering 12
Latin 4 So.	" 40 Jr. Sr.	Sr.
" 7* Jr. Sr.	" 43 Jr. Sr.	Civil Engineering 19*
" 10* Jr. Sr.	Swedish 1 Jr. Sr.	Sr.
" 11 Jr. Sr.	Dano-Norwegian 1 Jr.	Mechanical Engineer-
History of Art 1 Jr. Sr.	Sr.	ing 1 So. Jr. Sr.
" 7 Sr.	Dutch 1 Jr. Sr.	Mechanical Engineer-
Architecture 3 Jr. Sr.	" 4 Sr.	ing 3 Sr.
" 9 Jr. Sr.	French 4 So. Jr. Sr.	Mechanical Engineer-
" 17 Sr.	" 33 Jr. Sr.	ing 6 Sr.
Hebrew 1 Jr. Sr.	" 13 So. Jr. Sr.	Mechanical Engineer-
" 4 Jr. Sr.	" 21 Sr.	ing 10 So. Jr. Sr.
" 7 Jr. Sr.	" 10 Sr.	Mechanical Engineer-
Arabic 1 Jr. Sr.	" 28* Sr.	ing 11 So. Jr. Sr.
Assyrian 1 Jr. Sr.	" 16* Sr.	Chemistry 1 So.
Oriental History 1 Jr.	" 25 Sr.	" 4 Jr.
Sr.	Italian 1 Jr. Sr.	" 7 Sr.
Rhetoric 5 Jr. Sr.	" 4 Sr.	" 10 Sr.
" 10 Jr.	Spanish 1 Jr. Sr.	Physics 1 So. Jr.
" 13 Sr.	" 4 Sr.	" 5 So. Jr. Sr.
" 25 Sr.	Mathematics 9 So. Jr.	" 3 Jr. Sr.
English 12* Jr. Sr.	Sr.	" 13 Sr.
" 24 Jr. Sr.	Mathematics 13 So. Jr.	" 17 Sr.
" 27 So. Jr. Sr.	Sr.	Astronomy 1 Jr. Sr.
" 4 Jr. Sr.	Mathematics 15 Jr. Sr.	" 8 Sr.
" 18* Jr. Sr.	" 18* Sr.	Geology 1 Sr.
" 7 So. Jr.	" 21 Sr.	Comparative Anatomy
" 20 Sr.	Mechanics 3 Jr. Sr.	12 So.
" 31 Jr. Sr.	" 7 Sr.	Comparative Anatomy
" 34 Jr. Sr.	Drawing 1 Fr.	3 Jr. Sr.
History 4 Jr. Sr.	" 16 So. Jr. Sr.	Physiology 2 Jr.
" 7 Sr.	" 2 Fr. So. Jr.	Botany 1 Fr. So.
Political Science 1 Jr.	" 7 So. Jr. Sr.	" 4 So. Jr. Sr.
Sr.	" 10 Jr. Sr.	" 7 So. Jr. Sr.

*Omitted in 1894-95.

'Fr.' means that the study opposite which it is placed is open to election by members of the Freshman Class subject to the conditions prescribed for each course. In the same way 'So.' 'Jr.' and 'Sr.' refer to Sophomores, Juniors and Seniors. In selecting his studies the student is advised to pursue a series of related subjects continuously rather than to remit them for others for a time and then resume. Further, when a study is open to students of several years, it is not intended that those of the first year named should consider themselves obliged or expected to take it in that year.

Second Term

Philosophy 21 Sr.	Political Science 6 Jr.	Civil Engineering 4
" 9 Sr.	Sr.	So. Jr. Sr.
" 12 Sr.	Political Science 7 Sr.	Civil Engineering 6 Jr.
" 6 Sr.	Elementary Law 2 Jr.	Sr.
" 16 Sr.	Sr.	Civil Engineering 10
" 17 Sr.	Social Science 2 Jr. Sr.	Sr.
" 23 Sr.	Political Economy 2 Jr.	Civil Engineering 13
" 30 Sr.	Sr.	Sr.
Greek 5 So.	Political Economy 6	Civil Engineering 15
" 8* Jr. Sr.	Sr.	Sr.
" 11 Jr. Sr.	German 5 Jr. Sr.	Civil Engineering 16
" 17 Jr. Sr.	" 8 Sr.	Sr.
" 23 So. Jr. Sr.	" 17 Jr. Sr.	Civil Engineering 20*
" 14* Sr.	" 11 Sr.	Sr.
" 26 Sr.	" 41 Jr. Sr.	Mechanical Engineer-
Latin 5 So.	" 44 Jr. Sr.	ing 4 Sr.
" 8* Jr. Sr.	Swedish 2 Jr. Sr.	Mechanical Engineer-
" 14* Jr. Sr.	Dano-Norwegian 2 Jr.	ing 7 Sr.
" 12 Jr. Sr.	Sr.	Mechanical Engineer-
History of Art 4 Jr. Sr.	Dutch 2 Jr. Sr.	ing 10 So. Jr. Sr.
" 3 Jr. Sr.	" 5 Sr.	Mechanical Engineer-
Architecture 1 So. Jr.	French 5 So. Jr. Sr.	ing 11 So. Jr. Sr.
Sr.	" 34 Jr. Sr.	Chemistry 2 So.
Architecture 4 Jr. Sr.	" 14 So. Jr. Sr.	" 5 Jr.
" 10 Jr. Sr.	" 31 Sr.	" 8 Sr.
" 15 So. Jr.	" 11 Sr.	" 11 Sr.
Sr.	" 29* Sr.	" 13 Sr.
Architecture 18 Sr.	" 17* Sr.	" 15 Sr.
Hebrew 2 Jr. Sr.	" 26 Sr.	" 17 Sr.
" 5 Jr. Sr.	Italian 2 Jr. Sr.	Physics 2 So. Jr.
Aramaic 1 Jr. Sr.	" 5 Sr.	" 9 So. Jr. Sr.
Arabic 2 Jr. Sr.	Spanish 2 Jr. Sr.	" 11 Jr. Sr.
Assyrian 2 Jr. Sr.	" 5 Sr.	" 12 Jr. Sr.
Oriental History 2 Jr.	Mathematics 10 So. Jr.	" 14 Sr.
Sr.	Sr.	" 18 Sr.
Rhetoric 6 Jr. Sr.	Mathematics 14 So. Jr.	Astronomy 2 Jr. Sr.
" 11 Jr.	Sr.	" 3 Jr. Sr.
" 14 Sr.	Mathematics 16 Jr. Sr.	" 9 Sr.
" 26 Sr.	" 19* Sr.	Zoölogy 1 Jr. Sr.
English 10 So. Jr. Sr.	" 22 Sr.	Geology 2 Sr.
" 13* Jr. Sr.	Mechanics 4 Jr. Sr.	Comparative Anatomy
" 25 Jr. Sr.	" 8 Sr.	6 So.
" 28 So. Jr. Sr.	Drawing 5 Fr.	Comparative Anatomy
" 5 Jr. Sr.	" 3 Fr. So. Jr.	7 Jr.
" 19* Jr. Sr.	Sr.	Comparative Anatomy
" 8 So. Jr.	Drawing 17 So. Jr. Sr.	4 Jr. Sr.
" 21 Sr.	" 8 So. Jr. Sr.	Physiology 3 Jr.
" 35 Jr. Sr.	" 11 Jr. Sr.	Botany 2 Fr. So.
" 16 So. Jr. Sr.	" 19 So. Jr. Sr.	" 5 So. Jr. Sr.
" 32 Jr. Sr.	" 28 Sr.	" 8 So. Jr. Sr.
History 5 Jr. Sr.	" 22 So. Jr. Sr.	Military Science Jr. Sr.
" 8 Sr.	" 25* So. Jr. Sr.	Library Lecture 2 Jr.
Political Science 2 Jr.	Civil Engineering 2	Sr.
Sr.	So. Jr. Sr.	

Third Term

Philosophy 1 So. Jr.	History 11 Jr. Sr.	Civil Engineering 3
" 4 Jr. Sr.	" 6 Jr. Sr.	So. Jr. Sr.
" 22 Sr.	" 9 Sr.	Civil Engineering 7
" 10 Sr.	Political Science 3 Jr.	Jr. Sr.
" 13 Sr.	Sr.	Civil Engineering 8
" 15 Sr.	Elementary Law 3 Jr.	So. Jr. Sr.
" 7 Sr.	Sr.	Civil Engineering 11
" 18 Sr.	Social Science 3 Jr. Sr.	Sr.
" 24 Sr.	" " 4 Sr.	Civil Engineering 14
" 25 Sr.	Political Economy 3 Jr.	Sr.
" 27* Sr.	Sr.	Civil Engineering 15
" 28 Jr. Sr.	Political Economy 5	Jr. Sr.
Greek 6 So.	Sr.	Civil Engineering 16
" 9* Jr. Sr.	German 6 Jr. Sr.	Sr.
" 12 Jr. Sr.	" 9 Sr.	Civil Engineering 18
" 18 Jr. Sr.	" 18 Jr. Sr.	Jr. Sr.
" 20* Jr. Sr.	" 12 Sr.	Civil Engineering 21*
" 24 So. Jr. Sr.	" 42 Jr. Sr.	Sr.
" 15* Sr.	" 45 Jr. Sr.	Mechanical Engineer-
" 27 Sr.	Swedish 3 Jr. Sr.	ing 9 Jr. Sr.
Latin 6 So.	Dano-Norwegian 3 Jr.	Mechanical Engineer-
" 9* Jr. Sr.	Sr.	5 Sr.
" 15* Jr. Sr.	Dutch 3 Jr. Sr.	Mechanical Engineer-
" 13 Jr. Sr.	" 6 Sr.	ing 8 Sr.
History of Art 6 Jr. Sr.	French 6 So. Jr. Sr.	Mechanical Engineer-
" " 8 Sr.	" 35 Jr. Sr.	ing 10 So. Jr. Sr.
Architecture 2 So. Jr.	" 15 So. Jr. Sr.	Mechanical Engineer-
Sr.	" 12 Sr.	ing 11 So. Jr. Sr.
Architecture 5 Jr. Sr.	" 30* Sr.	Chemistry 3 So.
" 11 Jr. Sr.	" 18* Sr.	" 6 Jr.
" 16 So. Jr.	" 32 Sr.	" 9 Sr.
Sr.	" 27 Sr.	" 12 Sr.
Architecture 19 Sr.	Italian 3 Jr. Sr.	" 14 Sr.
Hebrew 3 Jr. Sr.	" 6 Sr.	" 16 Sr.
" 6 Jr. Sr.	Spanish 3 Jr. Sr.	" 18 Sr.
Aramaic 2 Jr. Sr.	" 6 Sr.	" 20 Sr.
Arabic 3 Jr. Sr.	Mathematics 8 So. Jr.	Physics 16 Sr.
Assyrian 3 Jr. Sr.	Sr.	" 4 So. Jr.
Oriental History 3 Jr.	Mathematics 11 So. Jr.	" 10 So. Jr. Sr.
Sr.	Sr.	" 15 Jr. Sr.
Rhetoric 7 Jr. Sr.	Mathematics 12 So. Jr.	" 19 Sr.
" 12 Jr.	Sr.	Astronomy 4 Jr. Sr.
" 15 Sr.	Mathematics 20* Sr.	" 7* Jr. Sr.
English 11 So. Jr. Sr.	" 23 Sr.	" 10 Sr.
" 14* Jr. Sr.	Mechanics 6 Jr. Sr.	Meteorology 1 Jr. Sr.
" 26 Jr. Sr.	" 9 Sr.	Anthropology 1 Sr.
" 29* So. Jr. Sr.	Drawing 4 Fr. So. Jr.	Comparative Anatomy
" 6 Jr. Sr.	Sr.	1 So.
" 9 So. Jr.	Drawing 6 Fr.	Comparative Anatomy
" 22 Sr.	" 18 So. Jr. Sr.	2 Jr. Sr.
" 17 So. Jr. Sr.	" 9 So. Jr. Sr.	Comparative Anatomy
" 30 So. Jr. Sr.	" 12 Jr. Sr.	8 Jr. Sr.
" 33 Jr. Sr.	" 20 So. Jr. Sr.	Botany 3 Fr. So.
" 36 Jr. Sr.	" 23 So. Jr. Sr.	" 6 So. Jr. Sr.
" 37* Jr. Sr.	" 26* So. Jr.	Library Lecture 3 Jr.
History 3 Jr. Sr.	Sr.	Sr.

II, The Courses of Instruction Arranged According to Departments

In the following pages the studies are arranged by departments, in order to show the courses available to the student in each subject. The Honor Courses presented are special courses of reading assigned to students wishing to do extra work. As such assignments vary with individual students, the Honor Courses named are to be regarded simply as specimens.

I, PHILOSOPHY

PRESIDENT ANDREWS, PROFESSORS SETH, DELABARRE, UPTON,
EVERETT AND MR. JACOBS.

1, *Logic*. Three hours. Third Term. Offered every other year. Elective for Sophomores and Juniors. This course alternates with course 27, and will be given in 1894-95.

PROFESSOR DELABARRE

2, 3, *Psychology*. General Synthetic Course. Three hours. First and Second Terms respectively. Required of all Juniors.

PROFESSOR DELABARRE

4, *Psychology*. Laboratory Course. Experiments by the students in the main lines of psychological research. Three hours. Third Term. Elective for Juniors, Seniors, and graduates qualified for the work.

PROFESSOR DELABARRE

20, 21, 22, *Psychology*. Advanced Course. Seminary for the discussion of important and interesting questions in Psychology. First Term: The Fundamental Principles of Psychology: Second Term: Abnormal and Unusual States of Consciousness. Third Term: Subject undetermined. Three hours. Elective for Seniors and graduates.

PROFESSOR DELABARRE

29, 30, *Psychology*. Advanced and original experimental work. One hour. (Two hours attendance). First and Second Terms. Elective for Seniors and graduates who have passed in Course 4.

PROFESSOR DELABARRE

19, *Philosophical Introduction*. An outline study of Logic. Inductive and Deductive, supplemented by simple lectures on the general aim and method of philosophical inquiry and the relation of philosophy to science and to ordinary knowledge. Three hours. Third Term. Required of all Juniors.

PROFESSOR SETH

27, *Scientific Method*. Identical with Astronomy 7, which see.

PROFESSOR UPTON

8, *History of Greek Philosophy*. Three hours. First Term. Elective for Seniors and graduates.

PROFESSOR SETH

9, *History of Mediaeval and Early Modern Philosophy*. Three hours. Second Term. Elective for Seniors and graduates who have passed in Course 8.

PROFESSOR SETH

10, *History of Recent and Contemporary Philosophy*. Three hours. Third Term. Elective for Seniors and graduates who have passed in Courses 8 and 9.

PROFESSOR SETH

11, 12, 13, *Course in Authors*. Three hours. First, Second and Third Terms respectively. Elective for Seniors and graduates.

PROFESSOR DELABARRE

In 1894-95, the following authors will be read: First Term, Plato; Second Term, Descartes and Spinoza; Third Term, Locke, Berkeley and Hume.

5, *Theoretical Ethics, Part I*. The Moral Ideal. Three hours. First Term. Elective for Seniors and graduates.

PROFESSOR SETH

23, *Theoretical Ethics, Part II*. The Moral Life. The Virtues and Institutions, with special reference to the Ethical Basis of the State. Two hours. Second Term. Elective for Seniors and graduates. Course 17 may well be taken with this, making a three-hour course.

PROFESSOR SETH

6, 15, *Practical Ethics*. Three hours. Second and Third Terms respectively. Elective for Seniors and graduates.

THE PRESIDENT

17, 18, *Conversations in Casuistry*. One hour. Second and Third Terms respectively. Elective for Seniors and graduates.

THE PRESIDENT

16, 7, *Philosophy of Religion*. The Metaphysical Basis of Religion. Three hours. Second and Third Terms respectively. Elective for Seniors and graduates who have passed in Course 5.

PROFESSOR SETH

24, *Philosophy of Religion*. The Content of the Religious, particularly of the Christian Consciousness, in the light of its Development. Two hours. Third Term. Elective for Seniors and graduates. Course 25 may be conveniently joined with this.

PROFESSOR SETH

25, *Instruction in the Christian Religion*. One hour. Third Term. Elective for Seniors and graduates.

THE PRESIDENT

14, *Philosophical Seminary*. Papers, followed by discussion, on the more difficult problems of philosophy. Two hours. Through the year. Elective for graduate and honor students. The subject of study for 1894-95 is the Philosophy of Kant.

PROFESSOR SETH

28, *Pedagogy*. The history, theory and practice of organized education. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

MR. JACOBS

Honors will be offered in connection with courses 8, 9, 10; 11, 12, 13; 5, 16, 7; and 20, 21, 22.

Philosophical Club. An organization consisting of graduates and Senior students, with the instructors in the department, for the independent discussion of philosophical questions. See further, under Philosophy, in General Description of the Departments.

II, GREEK LITERATURE AND HISTORY

PROFESSOR MANATT, DR. NEWHALL AND MESSRS.

HINDS AND BURNETT

1, *Herodotus* and *Thucydides*. *Selections*. Greek History to end of Persian Wars. Practice in sight-reading, and in hearing and speaking Greek, on the basis of the text in hand. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

DR. NEWHALL, MESSRS. HINDS AND BURNETT

2, *Lysias* (selections) and *Xenophon* (*Hellenica* II). Greek History. Practice in sight-reading, and in using Greek, as above. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

DR. NEWHALL, MESSRS. HINDS AND BURNETT

3, *Homer*. The *Odyssey*. History of Greek Literature. The Homeric Question. The Life of the Heroic Age as revealed in the Poems, and illustrated by recent archaeological research. Practice in sight-reading and rendering into Attic prose. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

DR. NEWHALL, MESSRS. HINDS AND BURNETT

Beginning with the year 1895-96 the order of studies in the Freshman year will be: (1) *Lysias*, (2) *Thucydides* (or *Herodotus*), (3) *Homer*.

6, *Lysias* and *Demosthenes*. Selected speeches. Collateral reading. Plutarch's Life of Demosthenes. Development of Attic Oratory. Judicial and parliamentary procedure at Athens. Practical exercises in the use of Greek on the subject-matter in hand. Three hours. First Term. Elective for Sophomores.

PROFESSOR MANATT

4, *Plato*. *Apology* and *Crito*, with parts of the *Phaedo*, and parallel reading in the *Memorabilia* of *Xenophon*. Three hours. Second Term. Elective for Sophomores.

PROFESSOR MANATT

5, *Aeschylus* and *Sophocles*. Two plays. Collateral reading of Aristophanes' *Clouds*, and Milton's *Samson*. Development of the Drama. The Theatre at Athens. Practical exercises in the use of Greek on the subject-matter in hand. Three hours. Third Term. Elective for Sophomores.

PROFESSOR MANATT AND DR. NEWHALL

*7, 8, 9, *The Historians*. Herodotus, Thucydides and Xenophon with parallel reading in Plutarch's *Lives*, followed by an outline sketch of the later history down to the present day. Three hours. Through the year. Elective for Juniors and Seniors who have completed Courses 1-6, or equivalent work.

PROFESSOR MANATT

10, *Isaeus*. The extant speeches read and discussed in their bearings on Athenian family life and testamentary law. Collateral reading: Jebb's *Attic Orators*. Three hours. First Term. Elective for all students who have completed Courses 1-6, or equivalent work.

PROFESSOR MANATT

11, *Demosthenes*. The Private Speeches, selected to illustrate the working of Athenian Institutions. Three hours. Second Term. Elective as Course 10.

PROFESSOR MANATT

12, *Aeschines* and *Demosthenes*. The Speeches on the Crown. Study of the Macedonian Period, and of Athenian political life. Three hours. Third Term. Elective as Courses 10 and 11.

PROFESSOR MANATT

*13, 14, 15, *Epic and Lyric Poetry*. Homer, Hesiod and Pindar, with selections from the *Anthology*. Three hours. Through the year. Elective for Seniors and graduates.

DR. NEWHALL

16, *Aeschylus* and *Sophocles*. One play of each author in Greek and all the plays in English, with lectures on the Drama. Three hours. First Term. Elective for Juniors, Seniors and graduates.

DR. NEWHALL

17, *Euripides*. Chief plays in Greek and in English. Archaeology of the Greek theatre. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

DR. NEWHALL

18, *Aristophanes*. Plays in Greek and in English. Greek Metres and Greek Private Life. Three hours. Third Term. Elective for Juniors. Seniors and graduates.

DR. NEWHALL

*20, *The Topography and Monuments of Greece*, on the basis of Pausanias. One hour. Third Term. Elective for Juniors and Seniors.

PROFESSOR MANATT

21, *The Public Life of the Greeks*. Incorporated with the course in the Orators.

22, 23, 24, *New Testament and Modern Greek*. One hour. Through the year. Elective for Sophomores, Juniors and Seniors.

PROFESSOR MANATT AND DR. NEWHALL

25, 26, 27, *Plato and Aristotle*. Plato's Republic and Aristotle's Politeia of Athens and Politics. Two hours. Through the year. Seminary for Seniors and graduates.

PROFESSOR MANATT

HONOR COURSES

Students studying for honors in Greek are allowed a large option. The following courses may serve as illustrations of what is desired :

- a, Homer, eight or ten books of the Odyssey. Jebb's Introduction to Homer. Gladstone's Homeric studies. Demosthenes and Aeschines, one or more characteristic orations of each. Jebb's Attic orators. Aeschylus, one or more tragedies. Aristophanes, the Clouds and the Acharnians. Historical Development of the Greek Drama. Plato, the Phaedo, and one or more of the other Dialogues. Early History of Greek Philosophy. Studies in Greek Literature.
- b, Herodotus, the Persian Wars. Aeschylus, the Persians. Plutarch's Life of Themistocles. Thucydides, Peloponnesian War. Plutarch's Pericles and Alcibiades. Grote, Curtius and Abbott, History of Greece in the Fifth Century before Christ. Rawlinson's Herodotus.

- c, Homer, eight or ten books of the Iliad. Studies in Greek Grammar and in Greek Etymology. Meyer, *Griechische Grammatik*. Munro's Homeric Grammar. Brugmann, (1) Comparative Grammar of the Indo-Germanic Languages, vol. 1; (2) *Griechische Grammatik*. Müller, *Handbuch der klassischen Alterthumswissenschaft*. Papillon, Comparative Philology. B. Delbrück, (1) *Der Gebrauch des Conjunctiv und Optativs im Sanskrit und griechischen*; (2) *Ablative, Localis, Instrumentalis*. G. Curtius, (1) *Das Verbum der griechischen Sprache*; (2) *Grundzüge der griechischen Etymologie*. Selections from the Greek Orators. History of Greek Oratory.

III, ROMAN LITERATURE AND HISTORY

PROFESSORS HARKNESS AND EVERETT, MESSRS.

GREENE AND DEALEY

- 1, *Livy*. Early Roman History. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR EVERETT, MESSRS. GREENE AND DEALEY

- 2, *Cicero*. Letters. Cicero and his times. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR EVERETT, MESSRS. GREENE AND DEALEY

- 3, *Tacitus*. Germania and Agricola. History of the Early Empire. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR EVERETT, MESSRS. GREENE AND DEALEY

- 4, *Horace*. Odes and Epodes. Ovid's Lyrics. Lectures on Lyric Poetry. Three hours. First Term. Elective for Sophomores.

PROFESSOR HARKNESS (This year Mr. GREENE)

- 5, *Catullus, Tibullus, and Propertius*. Lyric Poetry continued. Three hours. Second Term. Elective for Sophomores.

PROFESSOR HARKNESS (This year Mr. GREENE)

- 6, *The Satires of Horace and Juvenal*. Roman Life. Three hours. Third Term. Elective for Sophomores.

PROFESSOR HARKNESS (This year Mr. GREENE)

7, *The Origin of Latin Poetry and the Development of the Drama.* Readings from Plautus and Terence. Three hours. First Term Elective for Juniors and Seniors. Offered in 1895-96.

PROFESSOR HARKNESS

8, *The Poetry of the Republic continued and the Poetry of the Augustan Age.* Readings from Lucretius and other Authors of this period. Three hours. Second Term. Elective for Juniors and Seniors. Offered in 1895-96.

PROFESSOR HARKNESS

9, *The Poetry of the Silver Age.* Readings from Authors of the period. Three hours. Third Term. Elective for Juniors and Seniors. Offered in 1895-96.

PROFESSOR HARKNESS

10, 14, 15. *Private Life and Antiquities of Rome.* Illustrated by the stereopticon. One hour. Through the year. Elective for Juniors, Seniors and graduates. Offered in 1895-96.

PROFESSOR HARKNESS

11, *Prose of the Republican Period.* The Development of Oratory. Readings from Specimens of Early Latin, from Cicero's Brutus, and from Quintilian. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS (This year PROFESSOR EVERETT)

12, *Prose of the Augustan Age.* The Development of Historical Writing. Readings from the Historians. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS (This year PROFESSOR EVERETT)

13, *Prose of the Silver Age.* Roman Philosophers. Readings from Seneca and from other authors of this period. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS (This year PROFESSOR EVERETT)

The object of Courses 11-13 is to give a connected idea of the development and History of Latin Prose. These courses alternate with corresponding courses on the history of Latin Poetry.

HONOR COURSES

A wide range of choice is allowed students who read for honors. The following courses may serve as examples of what is recommended.

- a, F. D. Allen, Remnants of Early Latin. Wordsworth, Fragments and Specimens of Early Latin. Plautus, three or four plays. Cato, *De Re Rustica*. Selections from Quintilian and from Aulus Gellius. Strong, Logeman, Wheeler, Introduction to the Study of Language. Brugmann, Comparative Grammar, Seelman, *Die Aussprache des Latein*. Stolz und Schmalz, *Lateinische Grammatik*. Bréal et Bailly, *Dictionnaire étymologique latine* Vaníček, *Etymologisches Wörterbuch der lateinischen Sprache*.
- b, Selections from the following: Plautus, Terence, Vergil's Georgics, Ovid's Elegies, Seneca's Tragedies, Martial. Histories of Roman Literature: Teuffel, Crutwell. Sellar, The Roman Poets. Moulton, The Ancient Classical Drama. Patin, *Études sur la poésie latine*. Ribbeck, *Geschichte der römischen Dichtung*.
- c, Selections from Lucretius, from Cicero's Philosophical Writings, and from Seneca's Essays and Epistles. Mayor, History of Ancient Philosophy. Wallace, Epicureanism. Masson, The Atomic Theory of Lucretius. Capes, Stoicism. Zeller, The Stoics, Epicureans, and Sceptics. Martha, *Le Poème de Lucrèce*.
- d, Selections from the following: Caesar, Livy, Tacitus, Suetonius, Curtius. Histories of Rome: Mommsen's, Ihne's, Duruy's, Arnold's. Merivale, History of the Romans under the Empire. Mommsen, Provinces of the Roman Empire. Arnold, Roman Provincial Administration. Sir G. C. Lewis, Credibility of the Early Roman History. Nizard, *Les Quatre Grands Historiens Latins*.

IV, THE FINE ARTS

PROFESSOR POLAND AND MR. ISHAM

HISTORY AND CRITICISM

PROFESSOR POLAND

- 1, *Ancient Art or Classical Archaeology*. General course in the history of ancient art, chiefly Greek and Roman. Collingnon's Manual of Greek Archaeology, Wright's translation. Lectures, illustrated by plaster casts, lantern views, photographs, engravings, with collateral reading. Three hours. First Term. Elective for Juniors, Seniors and graduates.

4, *Early Christian and Mediaeval Art.* This course includes some notice of Byzantine, Arabian and Oriental Art, (Persia, India, China, Japan), and more particularly a study of Romanesque and Gothic Art. Bayet's Précis d' Histoire de l'Art. Lectures, illustrated by lantern views. Three hours. First Term. Elective for Juniors, Seniors and graduates.

6, *The Art of the Renaissance.* Bayet's Précis. Lectures, illustrated by lantern views. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

The above courses (1, 4, 6,) may be taken independently of each other, but students are advised to elect all three, as they present a consecutive outline of the history of the most important epochs of Art. Course 1 is so important, not only in itself, but as preparatory to the study of Art in all periods, that students are strongly advised to take it, when possible, before taking any other course in the History of Art.

7, *Modern Art.* From the seventeenth century. Bayet's Précis. Lectures and assigned reading, illustrated by lantern views. Three hours. First Term. Elective for those who have passed in Course 6.

3, *Pausaniae descriptio arcis Athenarum*, edited by Jahn and Michaëlis. Special course in the study of the Acropolis of Athens. The original Greek text is used. The subject is studied from the original sources, literary and monumental. Lectures and illustrations. Three hours. Second Term. Elective for those who have passed in Course 1.

8, *Theory and Criticism of the Fine Arts: Aesthetics.* Three hours. Third Term. Elective for those who have passed in one of the foregoing courses.

Honor courses are arranged for those prepared. Attendance on instruction of at least one hour per week is required.

Special courses are offered to graduates and other advanced students who have completed the courses described above, or their equivalents.

ARCHITECTURE

MR. ISHAM

1, 2, *The Orders.* Rendering in line and in washes. Three hours (six hours drawing). Second and Third Terms respectively. Elective for those who have passed in Drawing 7.

3, 4, 5. *Constructive*. Plans, elevations, sections and details of buildings. Lectures and drawing. Visits to buildings. Specifications. Three hours. Through the year. Elective for those who have passed in Course 2.

9, 10, 11. *Historic*. Drawing of historic examples from data indicated by instructor. Greek, Roman and Byzantine work. Plans and elevations. Lectures. Three hours. Through the year. Elective for those who have passed in Course 2, and who take Fine Arts 1, 2, 3.

15, 16. *Elementary Construction*. Masonry and Carpentry. Clark's "Building Superintendence." Lectures. Study of ordinary materials and the common forms of stone and wood construction. Three hours. Second and Third Terms. Elective for those who have taken Physics 1.

17, 18, 19. *Advanced Construction*. Masonry. Timber Framing. Iron and Steel. Text books and lectures. Three hours. First, Second and Third Terms. Elective for Seniors who have taken Mechanics 3, 4 and 6. Students who take this course are strongly advised to take Mechanical Engineering 6, 7 and 8.

The course in Architecture may be continued through a year or more of graduate work in Design, fifteen hours each week, *i. e.* thirty hours of attendance.

V, SEMITIC LANGUAGES AND ORIENTAL HISTORY

PROFESSOR JEWETT

HEBREW LANGUAGE AND LITERATURE

1, 2, 3. *Hebrew Accidence*. Harper's Introductory Hebrew Method and Manual, Harper's Elements of Hebrew, the Hebrew Bible. Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

7. *Hebrew Syntax*. Harper's Elements of Hebrew Syntax. Reading of selected portions of the Historical Books and of the Psalms. Three hours. First Term. Elective for Juniors and Seniors.

4, 5, 6. *Critical Study of the Book of Isaiah*. One hour. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

8. *The Pentateuch*. Based on the English text, Revised Version, and requiring in pupils no knowledge of Hebrew. Three hours. Second Term. Elective for Juniors and Seniors.

ARAMAIC

1. *Classical Aramaic* (Syriac). Nöldeke's *Syrische Grammatik*. Roediger's *Chrestomathia Syriaca*. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

2. *Biblical Aramaic*. Brown's *Aramaic Method*. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

ARABIC

1, 2, 3. *Lansing's Arabic Manual*. Selected texts from one of the Beirut Chrestomathies. Three hours. First, Second and Third Terms respectively. Elective for Juniors, Seniors and graduates.

ASSYRIAN

1, 2, 3. *Lyon's Assyrian Manual*. Abel and Winckler's *Keilschrifttexte*. Three hours. First, Second, and Third Terms respectively. Elective for Juniors, Seniors and graduates.

ORIENTAL HISTORY

1. *Oriental History from the Earliest Times to the Birth of Mohammed*. Recitations, informal lectures, and supplementary reading. Three hours. First Term. Elective for Juniors, Seniors and graduates.

2. *The Rise and Spread of Islám*. Recitations, informal lectures, and supplementary reading. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

3. *History of the Crusades*. Recitations, informal lectures and supplementary reading. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

The three courses in Oriental History may be taken independently of each other.

VI, RHETORIC AND ORATORY

PROFESSOR SEARS, DR. BRINK, MESSRS. COLVIN, STONE, CROSBY,

MERRILL, POOR, FOGG, BARRY, THOMAS, GAMWELL

AND SHIPPEE

1, 8, 9. *Elementary Rhetoric*. One hour. Through the year. First Term: Three lectures on the fundamental principles of English Composition in the Freshman Lecture Course. Required of all Freshmen. Second and Third Terms: Essay writing. Required of all Freshmen except candidates for the degree of Civil or for that of Mechanical Engineer.

PROFESSOR SEARS

2, 3, 4. *Practical Rhetoric*. Three hours. First, Second, and Third Terms respectively. Required of all Sophomores who have not taken the subject in the Freshman year.

PROFESSOR SEARS AND DR. BRINK

19, 20, 21. *Elocution*. Lectures. Exercises on the Development and Culture of the Speaking Voice. Lectures, with illustrative examples, on the General Principles of Elocutionary Art. Individual training. Declamations. One hour. Through the year. Required during the First Term of Freshmen who are candidates for the degree of M. E. or C. E., optional for candidates for the degree of B. P. or B. S. Required of all Sophomores who have not taken it during Freshman year.

DR. BRINK

During the Second and Third Terms, students may substitute for Elocution, Course 27, 28.

27, 28. *Essay Writing*. One hour. Second and Third Terms. Elective for Freshmen and Sophomores, in place of Elocution.

DR. BRINK

22, 23, 24. *Oratory*. Lectures. General Principles of Oratorical Composition. Presentation and Discussion of Plans. The preparation and rehearsal of Orations, with subsequent delivery before the class for criticism and discussion. One hour. Through the year. Required of all Juniors.

DR. BRINK

10, 11, 12. *Advanced Composition*. Theme Writing. One hour. Through the year. Open to Juniors whose previous work in English Composition qualifies them to pursue this course.

PROFESSOR SEARS

13, 14, 15. *Advanced Composition*. Thesis Writing. One hour. Through the year. Open to Seniors whose previous work in English Composition qualifies them to pursue this course.

PROFESSOR SEARS

25, 26. *Seminary*. Studies in oratorical style. Analysis of great speeches. Practice in oratorical criticism and composition. Papers by members of the class followed by discussion. One hour. First and Second Terms. Open to Seniors and graduates.

DR. BRINK

5, 6, 7. *The History of Oratory.* Lectures upon the rise, development, and varying phases of forensic, deliberative, sacred, and occasional oratory from the earliest times. Periods: The Greek, Roman, Patristic, Mediaeval, Reformation, Parliamentary, and Congressional. Biographical accounts of Orators. The laws of oratorical criticism. One hour. Through the year. Elective for Juniors, Seniors, and graduates.

PROFESSOR SEARS

HONOR COURSE IN RHETORIC

Hill's Science of Rhetoric, with references to different authors upon various rhetorical principles, with thesis on subject to be assigned.

HONOR COURSES IN ORATORY

- a. An Examination on Webster's "Reply to Hayne," with a Thesis on "Webster's Orations Considered as Models of Oratorical Style."
- b. An Examination on Burke's Speech "To the Electors of Bristol" and Webster's "Speech on the Seventh of March, 1850," with a Thesis under the title: "A Comparison Between the Speeches of Webster and Burke, as Illustrating Different Theories of Oratorical Style."
- c. An Examination on Sheridan's Speech: "Warren Hastings on the Begum Charge," with a Thesis on: "Causes for the Simultaneous Appearance of the Group of Great English Orators to which Sheridan and Burke Belonged."

VII, ENGLISH LITERATURE AND LANGUAGE

PROFESSORS MANLY AND BRONSON

10, 11. *Elementary Course in Anglo-Saxon.* Three hours. Second and Third Terms. Elective for Sophomores, Juniors and Seniors.

PROFESSOR MANLY

12, 13, 14. *Advanced Course in Anglo-Saxon.* Beowulf, and the Elene; with lectures on the History of English Sounds. Three hours. Through the year. Elective for those who have passed in Courses 10 and 11. Omitted in 1894-95.

PROFESSOR MANLY

24, 25, 26. *Middle English from the Conquest to Chaucer.* Three hours. Through the year. Elective for those who have passed in Courses 10 and 11. Omitted in 1895-96.

PROFESSOR MANLY

27, 28. *Chaucer.* Three hours. First and Second Terms. Elective for Sophomores, Juniors and Seniors.

PROFESSOR MANLY

29. *Spenser.* Three hours. Third Term. Elective for Sophomores, Juniors and Seniors. Omitted in 1894-95.

PROFESSOR BRONSON

4, 5, 6. *Shakspeare.* Three hours. Through the year. Elective for Juniors and Seniors. May be taken two years in succession.

PROFESSOR MANLY

34, 35, 36. *Shakspeare's Dramatic Art.* Three hours. Through the year. Elective for graduate students, and for undergraduates who have passed in or are taking Courses 4, 5, 6. Omitted in 1895-96.

PROFESSOR BRONSON

30. *Milton.* Three hours. Third Term. Elective for Sophomores, Juniors and Seniors. Omitted in 1895-96.

PROFESSOR BRONSON

31, 32, 33. *Eighteenth-Century Literature* (exclusive of the Novel). Three hours. Through the year. Elective for Seniors, and for Juniors who can satisfy the instructor of their preparation for the course. Omitted in 1895-96. Students who cannot devote at least six hours a week to reading should not elect this course.

PROFESSOR MANLY

18, 19, 37. *The Novel.* Three hours. First, Second and Third Terms respectively. Elective for those who have passed in three literature courses. Omitted in 1894-95.

PROFESSOR BRONSON

7, 8, 9. *Nineteenth-Century English Poetry.* Three hours. First, Second and Third Terms respectively. Elective for Sophomores and Juniors.

PROFESSOR BRONSON

16, 17. *American Literature* (exclusive of orators and novelists). Three hours. Second and Third Terms. Elective for those who have passed in Course 7 or in two other literature courses. Omitted in 1895-96.

PROFESSOR BRONSON

20, 21, 22. *Seminary in English Literature.* Subjects for 1894-95 : The Ring and The Book, Emerson's Prose Writings, The Idylls of the King. Three hours. Through the year. Membership limited to ten. Elective for graduate students, and for Seniors who have passed in three literature courses.

HONOR COURSES

Courses leading to Honors in English are offered in connection with 27, 28, 29; with 27, 28, 30; with 4, 5, 6; with 7, 8, 9; with 18, 19, 37; with 34, 35, 36.

VIII, HISTORY

PROFESSORS JAMESON AND MUNRO

1. *General Mediaeval History of Europe.* Recitations and lectures, reports by members of the class, and supplementary readings. Three hours. First Term. Required of all Juniors.

PROFESSOR MUNRO

2. *General Modern History of Europe.* Methods as indicated under Course 1. Three hours. Second Term. Required of all Juniors.

PROFESSOR MUNRO

3. *History of the Reformation.* Three hours. Third Term. Elective for Juniors, Seniors and graduates.

PROFESSOR MUNRO

4. *English Constitutional and Political History to 1625.* Methods as indicated under Course 1. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

5. *English Constitutional and Political History since 1625.* Methods as in Course 1. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

6. *History of Europe since 1800.* Methods as in Course 1. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

7. *Constitutional and Political History of the United States to 1801.* Methods as in Course 1. Three hours. First Term. Elective for Seniors.

PROFESSOR JAMESON

8. *Constitutional and Political History of the United States since 1801.* Methods as in Course 1. Three hours. Second Term. Elective for Seniors.

PROFESSOR JAMESON

9. *Practical Exercises in American History.* Methods: individual research, practice in the use of sources, instruction of students individually, occasional meetings in class. Three hours. Third Term. Elective for Seniors who have completed Courses 7 and 8, and for graduates.

PROFESSOR JAMESON

10. *Principles of Historical Criticism.* Lectures and exercises. One hour. Through the year. Elective for graduates.

PROFESSOR JAMESON

11. *History of the Renaissance.* Three hours. Third Term. Elective for Juniors, Seniors and graduates.

PROFESSOR MUNRO

12. *Practical Exercises in Historical Criticism.* The Constitutional History of the English Commonwealth. One hour. First Term. To be succeeded in the Second or Third Term by similar exercises in later periods. Elective for graduates.

PROFESSOR JAMESON

13. *The History of Historical Writing in Modern Europe.* Lectures. One hour. First and Second Terms. Elective for graduates. Not offered in 1894-95.

PROFESSOR JAMESON

14. *American History, Special Course.* Selected topics in the constitutional history of the colonial period, in the history of the Constitution of 1787, and in the history of modern American diplomacy. Lectures. One hour. Through the year. Elective for graduates. Open as an honor course to Seniors who are candidates for honors in connection with History 7, 8, 9.

PROFESSOR JAMESON

The Historical Seminary, conducted by Professor Jameson, and including the graduate students of history and a few of the most advanced undergraduates, meets at intervals of about two weeks. Its meetings are devoted to original papers, to reports upon studies of method, and to the historical reviews and journals. The Seminary of Mediaeval History, conducted by Professor Munro, devotes itself to similar work in connection with his courses.

The Associated Seminaries of History, Political Economy and Political Science meet about twice in each term for the consideration of papers and other matters of common interest to the three departments.

HONOR COURSES

Honor Courses are arranged in connection with History 1, 2, 3; History 1, 2, 6; History 1, 2, 11; History 4, 5, 6; History 7, 8, 9.

IX, SOCIAL AND POLITICAL SCIENCE

PROFESSOR WILSON, MESSRS. GREEN AND WILCOX

SOCIAL SCIENCE

1. *The Principles of Sociology and the Development of Primitive Civilization.* Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2. *Modern Social Problems.* Charity, Penology, Criminology, History of Punishments. Marriage, Divorce. Lectures. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

3. *Modern Social Problems.* Temperance, Education, Labor Movements, Indians, Social Legislation, and Municipal Government. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

4. *Social Philosophy.* Lectures and exercises. Three hours. Third Term. Elective for graduates, and for others who have completed Social Science 1, 2 and 3.

PROFESSOR WILSON

POLITICAL SCIENCE

1. *The State.* Its origin, development, conditions, forms, end, and functions. Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2. *The Comparative Study of Constitutions.* Especially those of Germany, France, England, and the United States. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

3. *International Law and Relations.* Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

5. *Development of Political Theory.* Lectures and exercises. Three hours. First Term. Elective for graduates and for other students who have completed Courses 1, 2, and 3.

PROFESSOR WILSON

6. *Roman Law.* Historical and Legal exposition. Special reference to the influence of the Civil Law in England. Three hours. Second Term. Elective for Juniors and Seniors.

MR. GREEN

7. *Diplomacy.* The art and practice of international negotiation. Three hours. Second Term. Elective for students who have completed Course 3.

PROFESSOR WILSON

ELEMENTARY LAW

1. *Elements of Law.* Personal Relations. Three hours. First Term. Elective for Juniors and Seniors.

MR. WILCOX

2. *Property, Personal and Real.* Three hours. Second Term. Elective for Juniors and Seniors.

MR. WILCOX

3. *Contracts.* Three hours. Third Term. Elective for Juniors and Seniors.

MR. WILCOX

HONOR COURSES

Honor Courses are arranged in connection with Political Science 1, 2, 3; Social Science 1, 2, 3.

X, POLITICAL ECONOMY

PROFESSOR GARDNER

1, 2, 3. *Elementary Course.* Based upon lectures, and upon readings in standard authors. Essays. Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

4. *History of Economic Thought.* Lectures. Readings in the authors discussed. Three hours. First Term. Elective for Seniors.

6. *Money and Banking.* A discussion of the theory of money and credit, a description of existing monetary and credit systems, and a discussion of current problems in these fields. Jevons's *Money and the Mechanism of Exchange*, Dunbar's *Theory and History of Banking* and Taussig's *The Silver Question in the United States*. Three hours. Second Term. Elective for Seniors and graduates.

5. *Public Finance*. Lectures. Bastable's Public Finance. Description and comparison of the financial systems of the United States and foreign nations, including local finance and discussion of the principles of taxation. Three hours. Third Term. Elective for Seniors and graduates.

Advanced courses are open only to Seniors and graduate students who have completed the elementary course.

HONOR COURSES

The following will serve as examples of Honor Courses in Political Economy:

1. In connection with the elementary course. Selected reading on the history of economic life. Walker, Political Economy, advanced course; Roscher, Political Economy, English translation; Alfred Marshall, Principles of Economics; Cairnes, Political Economy, Its Character and Logical Method; Keynes, Scope and Method of Political Economy.
2. Special subject, *Banking*. Walker, Political Economy, advanced course; Gilbert, History, Principles and Practice of Banking; Bagehot, Lombard Street; Jevons, Money and the Mechanism of Exchange; Wagner, *Credit-und Bankwesen*, in Schönberg's *Handbuch der Pol. Oek*; Dunbar, Theory and History of Banking; Portions of Bolles's Practical Banking; A study of Banking in the United States, based principally on Richardson's National Banks and the reports of the Comptroller of the Currency.

XI, GERMANIC LANGUAGES AND LITERATURES

PROFESSORS WILLIAMS, SCOTT AND CROWELL, AND MR. ELY

UNDERGRADUATE COURSES

GERMAN

1. *Elementary Course*. Wenckebach's *Deutsches Lesebuch* and Collar's *Shorter Eysenbach*. Three hours. First Term. Required of all Sophomores. Class in four divisions.

PROFESSOR CROWELL AND MR. ELY

- * 2. *Intermediate Course*. Grammar. Composition. Conversation. Translation of selections in prose and verse from Goethe, Uhland, Schiller, Freytag, Benedix, Heyse. Three hours. Second Term. Required of all Sophomores. Class in four divisions.

PROFESSOR CROWELL AND MR. ELY

3. *Heine*. Life and Works. Lyrics. Harzreise. Reading at sight. Grammar. Composition. Conversation. Three hours. Third Term. Required of all Sophomores. Class in four divisions.

PROFESSOR CROWELL AND MR. ELY

First Year Honor Course. 1, *Maerchen*, Grimm. 2, *Eigensinn*, Benedix. 3, *Der Zerbrochene Krug*, Zschokke. 4, *Einer muss heirathen*, Wilhelmi. 5, *Doctor Wespe*, Benedix.

PROFESSOR WILLIAMS

4. *Schiller as Dramatist*. Jungfrau von Orleans. Maria Stuart. Lectures. Essays. Three hours. First Term. Elective for those who have passed in Courses 1, 2 and 3. Class in two divisions.

PROFESSOR CROWELL AND MR. ELY

5. Schiller's *Balladen und Romanzen*. Lectures. Essays. Three hours. Second Term. Elective for those who have passed in Course 4. Class in two divisions.

PROFESSOR CROWELL AND MR. ELY

6. *Lessing as Dramatist*. Emilia Galotti, Minna von Barnhelm, Nathan der Weise. Lectures. Essays. Three hours. Third Term. Elective for those who have passed in Course 5. Class in two divisions.

PROFESSOR CROWELL AND MR. ELY

Second Year Honor Course. 1, *Das Lied von der Glocke*, Schiller. 2, *Wilhelm Tell*, Schiller. 3, *Der Neffe als Onkel*, Schiller. 4, *Lenore*, Bürger. 5, *Des Sängers Fluch*, Roland Schildträger, *Der blinde König*, Uhland. 6, *Erkönig*, Mignon, *Die Braut von Corinth*, *Der Gott und die Bajadere*. *Der Fischer*, *Der Sänger*, Goethe.

PROFESSOR WILLIAMS

7. *Goethe's Sturm-und Drangperiode*. Götz von Berlichingen, Die Leiden des jungen Werthers. Lectures. Essays. Three hours. First Term. Elective for those who have passed in Course 6.

PROFESSOR WILLIAMS

8. *Goethe's Classical Dramas*. Iphigenie auf Tauris, Torquato Tasso. Lectures. Essays. Three hours. Second Term. Elective for those who have passed in Course 6.

PROFESSOR WILLIAMS

9. *Goethe's Faust*. Lectures. Essays. Three hours. Third Term. Elective for those who have passed in Course 6.

PROFESSOR WILLIAMS

Third Year Honor Course. 1, *Egmont*. 2, *Hermann und Dorothea*. 3, *Balladen und Romanzen*. 4, *Gedichte*. 5, *Boyesen's Goethe and Schiller*. 6, *Bossert's Goethe et Schiller*. 7, *Lewes's Life of Goethe*.

PROFESSOR WILLIAMS

16. *Early German Literature*. Lectures. Readings. Essays. Three hours. First Term. Elective for those who have studied German not less than one year.

PROFESSOR WILLIAMS

17. *German Literature*. Klopstock. Herder. Lessing. Wieland. *Die Aufklärung*. *Der Göttinger Dichterbund*. *Die Sturm-und Drangperiode*. Lectures. Readings. Essays. Three hours. Second Term. Elective for those who have passed in Course 16.

PROFESSOR WILLIAMS

18. *German Literature*. *Goethe and Schiller*. Lectures. Essays. Three hours. Third Term. Elective for those who have passed in Course 17.

PROFESSOR WILLIAMS

40, 41, 42. *Conversation and Composition*. One hour. Through the year. Elective for those who have had at least one year in German.

PROFESSORS WILLIAMS, SCOTT, CROWELL AND MR. ELY

43, 44, 45. *Scientific German*. Hodge's *Course in Scientific German*. One hour through the year. Supplemented by three special Courses in reading of one hour a week each through the year. With the general Course there are thus offered four per week in scientific reading through the year. Pupils in the first special Course read this year Zetzsche's *Geometrie*, Kellert's *Physik*, Klein's *Astronomie*; in the second, Hinzl's *Chemie*, Haas' *Geologie*, Hussak's *Mineralogie*; in the third, Hallier's *Botanik* and works on Physiology and Zoölogy. Elective for those who have had at least one year in German.

PROFESSOR SCOTT

SCANDINAVIAN

SWEDISH

1, 2, 3. J. C. Poestion's *Schwedische Grammatik*. Tegner's *Frithjofs Saga*. Selections from Runeberg's *Poems*. Lectures on Swedish literature. One hour. Through the year. Elective for those who have had at least one year in German.

PROFESSOR SCOTT

DANO-NORWEGIAN

1, 2, 3. J. C. Poestion's *Norwegische Grammatik*, and *Dänische Grammatik*. Björnson's *En Fallit* and *Synnöve Solbakken*. Ibsen's *En Folkefiende* and *Frueh Fra Havet*. Lectures on Norwegian and Danish literature. One hour. Through the year. Elective for those who have had at least one year in German.

PROFESSOR SCOTT

DUTCH

1, 2, 3. *Elementary Course*. Valette's *Dutch Conversation-Grammar*. Reading of Nineteenth Century authors. Etymology and comparative study of the language. One hour. Through the year. Elective for those who have had at least one year in German.

PROFESSOR CROWELL

4, 5, 6. *Advanced Course*. Study of Classic and Romantic Schools. Essays by the class. Lectures on Dutch literature. One hour. Through the year. Elective for those who have passed in Course 3.

PROFESSOR CROWELL

GRADUATE COURSES

GERMAN

10, 11, 12. *Introduction to Middle High German*. Paul's *Mittelhochdeutsche Grammatik*. *Das Nibelungenlied*. Lectures. One hour. Through the year.

PROFESSORS WILLIAMS AND SCOTT

13, 14, 15. *Advanced Middle High German*. *Des Minnesangs Frühling*, *Walther von der Vogelweide*. Lectures. Essays. One hour. Through the year. Elective for those who have passed in Course 12.

PROFESSORS WILLIAMS AND CROWELL

37, 38, 39. *Advanced Middle High German*. The Court Epics. *Hartmann von Aue's Iwein* and *Der arme Heinrich*. *Gottfried von Strassburg's Tristan*. *Wolfram von Eschenbach's Parzival*. Lectures. Essays. One hour. Through the year. Elective for those who have passed in Course 12.

PROFESSOR SCOTT

19, 20, 21. *Old High German*. *Braune's Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch*. *Kelle's Geschichte der altdutschen Litteratur*. One hour. Through the year.

PROFESSOR SCOTT

34, 35, 36. *Germanic Philology*. Lectures upon sounds, word-formation, syntax and metre of the Germanic dialects. *Heyne's Übungsstücke zur Laut und Flexionlehre der altgermanischen Dialekte*. Two hours. Through the year.

PROFESSOR SCOTT

28, 29, 30. *Germanic Mythology*. Lectures upon Germanic Mythology and its relations to the Germanic Literatures. One hour. Through the year.

PROFESSOR SCOTT

OLD SAXON

1, 2, 3. *Gallée's Altsächische Grammatik*. *Behagel's Heliand*. One hour. Through the year.

PROFESSOR SCOTT

GOTHIC

1, 2, 3. *Braune's Gotische Grammatik*. *Heyne's Stamm's Ulfilas*. *Feist's Grundriss der gotischen Etymologie*. One hour. Through the year.

PROFESSORS WILLIAMS AND SCOTT

OLD NORSE

1, 2, 3. *Introductory*. *Norreen's Altisländische und Altnorwegische Grammatik*. *Wilke's Prosaische Edda*. *Finnur Jönsson's Eddalieder*. Lectures. One hour. Through the year.

PROFESSOR SCOTT

4, 5, 6. *Advanced*. *Njal's Saga*. *Gunnlaug's Saga*. *Ari's Islendingabok*. Lectures upon the Old Norse Literature. One hour. Through the year.

PROFESSOR SCOTT

XII, ROMANCE LANGUAGES AND LITERATURES

PROFESSOR LANGDON, MESSRS. JOHNSON AND SWIFT

FRENCH

A, *Elementary Course*. Grammar, composition, and the reading of easy selections in modern French. Three hours. Through the year. The equivalent of the Elementary French required for admission. Required of all Sophomores who offer for admission German instead of French.

MR. JOHNSON

1, 2, 3. *Modern French*. Novels and Plays, translated rapidly by the class, with special study of unusual constructions and idioms. Also readings by the class without translation. Essentially a language-course. Three hours. Through the year. Required of all Freshmen.

PROFESSOR LANGDON, MESSRS. JOHNSON AND SWIFT

4, 5, 6. *Advanced French*. Literary study in the original, of the masterpieces of Corneille, Racine, Molière, and Victor Hugo. Three hours. Through the year. Elective for all who have passed creditably in Courses 1, 2, 3.

PROFESSOR LANGDON

33, 34, 35. History of the Romance Literatures. Lectures and essays by the class. Two hours. Through the year. Open at the instructor's discretion to all who have passed in French 4, 5, 6.

PROFESSOR LANGDON

13, 14, 15. *Practice in Writing French*. Elementary Course. One hour. Through the year. Elective for all who have passed with credit in Courses 1, 2, 3.

MR. JOHNSON

GRADUATE COURSES, OPEN TO SENIORS WITH THE CONSENT
OF THE INSTRUCTOR

10, 11, 12. *French Literature of the Nineteenth Century*. Seminary Work. Essays on the literary movement of the century, with wide reading in poetry and prose, from Chateaubriand and Lamartine to Daudet and Coppée. Two hours. Through the year. Elective only for such as have passed with credit in Courses 4, 5, 6, and 33, 34, 35.

MR. JOHNSON

28, 29, 30. *French Literature of the Eighteenth Century*. Reading of selections from the principal authors, with themes. One hour. Through the year. Elective like Courses 10, 11, 12. Not offered in 1894-95.

MR. JOHNSON

16, 17, 18. *French Literature of the Sixteenth Century*. Study of the language, literature, and art of the Renaissance period in France. One hour. Through the year. Elective like Courses 10, 11, 12. Not offered in 1894-95.

PROFESSOR LANGDON

21, 31, 32. *Old French*. Introduction to the study of Romance Philology and the literature of the Middle Ages in France. One hour. Through the year. Elective like Courses 10, 11, 12.

MR. JOHNSON

25, 26, 27. *Provençal*. Language and Literature. One hour. Through the year. Elective like Courses 10, 11, 12.

PROFESSOR LANGDON

ITALIAN

1, 2, 3. *Introductory Course*. Grammar, composition, and the reading of modern stories and plays. Three hours. Through the year. Elective for Juniors and Seniors.

PROFESSOR LANGDON

4, 5, 6. *Classical Course*. Special study of Dante's *Divina Commedia* in the original. Lectures on the Italian Renaissance. Two hours. Through the year. Elective for all who have passed with credit in Course 1, 2, 3.

PROFESSOR LANGDON

SPANISH

1, 2, 3. *Introductory Course*. Grammar, conversation, composition, and the reading of modern stories and plays. Three hours. Through the year. Elective for Juniors and Seniors.

MR. JOHNSON

4, 5, 6. *Classical Course*. Selections from Calderon and Lope de Vega, with special study of Cervantes's *Don Quixote*. Two hours. Through the year. Elective for all who have passed with credit in Course 1, 2, 3.

PROFESSOR LANGDON

XIII, PURE MATHEMATICS

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MESSRS. ALGER, MOSS AND MORTON

1. *Geometry, Solid and Spherical*. Wells's Elements of Geometry, with original propositions. Five hours. First Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MESSRS.
ALGER, MOSS AND MORTON

2. *Trigonometry, Plane and Spherical*. Wells's Trigonometries. Five hours. Third Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer and Mechanical Engineer.

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MESSRS.
ALGER, MOSS AND MORTON.

3. *Algebra*. Wells's and Smith's *Algebras*. Five hours. Second Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MESSRS.

ALGER, MOSS AND MORTON

4. *Spherical Trigonometry*. One hour. — First Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

5. *Algebra*. Hall and Knight's *Algebra*. One hour. First Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

6. *Algebra*. Hall and Knight's *Algebra*. A continuation of Course 5. Two hours. Second Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

7. *Algebra*. Hall and Knight's *Algebra*. A continuation of Course 6. Two hours. Third Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

8. *Theory of Equations and Determinants*. Three hours. Third Term. Elective for those who have passed in Course 3, or Courses 5, 6 and 7.

DR. MANNING

9. *Analytic Geometry*. Wentworth's *Analytic Geometry*. Three hours. First Term. Elective for those who have passed in Courses 1, 2 and 3. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

10. *Analytic Geometry*. Wentworth's *Analytic Geometry*. Three hours. Second Term. Elective for those who have passed in Course 9. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

11. *Modern Methods in Analytic Geometry*. Lectures. Three hours. Third Term. Elective for those who have passed in Course 10.

DR. MANNING

12. *Differential Calculus.* Rice and Johnson's Differential Calculus. Three hours. Third Term. Elective for those who have passed in Courses 9 and 10. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

13. *Integral Calculus.* Johnson's Integral Calculus. Three hours. First Term. Elective for those who have passed in Course 12. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

14. *Applications of the Calculus.* Rice and Johnson's Differential Calculus and Johnson's Integral Calculus. Three hours. Second Term. Elective for those who have passed in Courses 12 and 13. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

15. *Differential Equations.* Johnson's Differential Equations. Three hours. First Term. Elective for those who have passed in Courses 12 and 13.

DR. MANNING

16. *Differential Equations.* Johnson's Differential Equations. Continuation of Course 15. Three hours. Second Term. Elective for those who have passed in Course 15.

DR. MANNING

17. *Theory of Functions.* Algebraic Functions, Riemann Surfaces, and Abelian Functions. One hour. Through the year. Elective for graduates. Subject in 1895-96, applications of the Theory of Functions.

DR. MANNING

18, 19, 20. *Modern Algebra.* Higher Plane Curves, Surfaces, Salmon, Clebsch, and Darboux. Three hours. Through the year. Elective for graduates, and for candidates for the degree of Bachelor of Science who have passed in Courses 15 and 16. Offered in 1895-96.

DR. MANNING

21, 22, 23. *Theory of Functions.* Series, Definite Integrals, Curvilinear Integrals, Functions of a Complex Variable. Introduction to Elliptic Functions. Authors: Picard, Hermite, and Jordan. Three hours. Through the year. Elective for graduates, and for candidates for the degree of Bachelor of Science, who have passed in Courses 15 and 16.

DR. MANNING

Courses 18, 19, 20, alternate with Courses 21, 22, 23, each being offered every other year.

24. A course of reading for graduates with the Instructor. Subjects for this year, Quaternions and allied subjects, Non-Euclidean Geometry, and Hyper-Space.

DR. MANNING

HONOR COURSES

Supplementary Courses are arranged to accompany all the mathematical courses. These include:

Chauvenet's Geometry, the exercises in Solid Geometry, and the Appendix in Modern Geometry.

Newcomb's Analytic Geometry.

Rice and Johnson's Calculus, unabridged edition.

Some of the graduate courses may be taken as honor courses by those who are qualified to take them.

XIV, DRAWING

PROFESSOR RANDALL, MESSRS. BURNHAM, ISHAM AND MARVEL

1. *Elementary Mechanical Drawing.* Nature, care, and use of drawing instruments. Elements of orthographic and isometric projection. Four hours. (Eight hours drawing). First Term. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy.

PROFESSOR RANDALL

16. *Elementary Mechanical Drawing.* Similar to Course 1. Three hours. (Six hours drawing). First Term. Elective for Sophomores, Juniors and Seniors.

PROFESSOR RANDALL

5, 6. *Descriptive Geometry.* Church's Descriptive Geometry. Theory of orthographic and scenographic projection. Discussion and proof of theoretical and practical problems. Recitations and drawing. Four hours. (Three hours recitation and two hours drawing). Second and Third Terms respectively. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy and have passed in Course 1.

PROFESSOR RANDALL

17, 18. *Descriptive Geometry*. Similar to Courses 5 and 6. Three hours. (Two hours recitation and two hours drawing). Second and Third Terms respectively. Elective for Sophomores, Juniors and Seniors who have passed in Course 1 or 16.

PROFESSOR RANDALL

7. *Shades, Shadows and Perspective*. Based upon Descriptive Geometry. Recitations and Drawing. Three hours. (One hour recitation and four hours drawing). First Term. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer. Elective for those who have passed in Courses 5 and 6, or 17 and 18.

PROFESSOR RANDALL

8. *Elementary Machine Drawing*. Sketches, detail and assembly drawings of simple machines. Three hours. (Six hours drawing). Second Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Courses 5 and 6, or 17 and 18.

PROFESSOR RANDALL

9. *Gearing*. Nature of higher plane curves and their application in the formation of gear teeth. Recitations and drawing. Three hours. (One hour recitation and four hours drawing). Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Mechanical Engineering 1, and in Drawing 5 and 6, or 17 and 18.

MR. BURNHAM

10, 11. *Advanced Machine Drawing*. Sketches, detail and assembly drawings of complicated machines. Three hours. (Six hours drawing). First and Second Terms respectively. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Courses 8 and 9.

MR. BURNHAM

12. *Elements of Machine Design*. Problems in the design of mechanisms. Three hours. (Six hours drawing). Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Mechanical Engineering 1, and in Drawing 10 and 11.

MR. BURNHAM

27, 28. *Advanced Machine Design*. Problems in practical design involving the calculation of the strength of parts. Three hours. (Six hours drawing.) First and Second Terms respectively. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Drawing 10, 11 and 12, and in Mechanics 3, 4 and 6.

MR. BURNHAM

15. *Constructive Geometry.* Discussion and Proof of original methods of solving complicated geometrical problems. Three hours. (Six hours drawing.) First Term. Elective for those who have passed in Course 1 or 16.

PROFESSOR RANDALL

19. *Mechanical Drawing.* Continuation of Course 16. Plane and solid problems. Advanced orthographic and isometric projection. Three hours. (Six hours drawing.) Second Term. Elective for those who have passed in Course 16.

PROFESSOR RANDALL

20. *Mechanical Drawing.* Continuation of Course 19. Practical work in shades and shadows, and perspective. Three hours. (Six hours drawing.) Third Term. Elective for those who have passed in Course 19.

PROFESSOR RANDALL

29, 30, 31. *Lettering.* Simple forms of letters applicable to engineering drawings. One hour. (Two hours drawing.) Through the year. Open only to students in Civil Engineering.

MR. HILL

2, 3, 4. *Freehand Drawing.* Outline and light and shade in pencil and charcoal from models and casts. One hour. (Two hours drawing.) Through the year. Elective for all students.

MR. ISHAM

21, 22, 23. *Freehand Drawing.* Continuation of Course 4. Charcoal, pen-and-ink, water monochrome. One hour. (Two hours drawing.) Through the year. Elective for those who have passed in Course 4.

MR. ISHAM

24, 25, 26. *Freehand Drawing.* Architectural rendering in pen-and-ink and in washes. One hour. (Two hours drawing.) Through the year.) Elective for those who have passed in Course 4. Offered in 1895-96.

MR. ISHAM

HONOR COURSES

Honor courses are arranged in connection with Drawing 1, 5, 6; Drawing 16, 17, 18; Drawing 7, 8, 9 and Drawing 16, 19, 20.

XV, CIVIL ENGINEERING*

MR. HILL

1, 2, 3. *Surveying*. Elementary Course. Johnson's Theory and Practice of Surveying. Field-work, recitations, and plotting. Use of Compass, Level, and Transit. Adjustments of instruments. Topography with Hand-level, and by Stadia. Text-book work. Three hours. Through the year. Elective for those who have passed in Mathematics 1, 2 and 3, and Drawing 1 or 16.

4. *Topographical Drawing*. Pen Topography. Conventional signs for maps. Colored Topography. Three hours. Second Term. Elective for those who have passed in Course 1 and Drawing 1.

5, 6, 7. *Railroad Engineering*. Searles's Field Engineering. Wellington's Economic Theory of the Location of Railways. Lectures. Field-work, recitations and plotting. Six, three and three hours. First, Second and Third Terms respectively. Elective for those who have passed in Courses 1, 2, 3, 4 and 8.

8. *Advanced Surveying*. Advanced topographical work with Transit and Stadia, and with Plane Table. Reconnaissance with Barometer. Precise base-line measurements with steel tape. Hydrographic Surveying. Use of Sextant. Actual work in locating soundings by transit and by sextant angles. Plotting field-work. Six hours. Third Term. Elective for those who have passed in Courses 1 and 2.

10, 11. *Hydraulics*. Merriman's Treatise on Hydraulics. Three hours. Second and Third Terms respectively. Elective for those who have passed in Mathematics 12 and 13; and Mechanics 3 and 4.

12, 13, 14. *Structures*. Merriman-Jacoby's Roofs and Bridges. Calculation of Stresses by Analytical and Graphical Methods. Structural Details. Bridge Design. Three, six and six hours. First, Second and Third Terms respectively. Elective for those who have passed in Mathematics 12 and 13, Mechanics 3 and 4, and Drawing 1 or 16.

15. *Masonry*. Baker's Treatise on Masonry Construction. Design of Arches, Retaining Walls and Masonry Dams. Three hours. Third Term. Elective for those who have passed in Mathematics 12 and 13, Mechanics 3 and 4, and Drawing 5 and 6.

*All the courses under this heading are required of candidates for the degree of Civil Engineer. The course for the class of 1895 will be as given in the Catalogue of 1893-94.

16. *Geodasy*. Problems in Geodetic Surveying. Computations. One hour. Third Term. Elective for those who have passed in Courses 1, 2, 3 and 8, and Astronomy 1, 3 and 4.

17. *Sanitary Engineering*. Staley-Pierson's The Separate System of Sewerage. Lectures. Three hours. First Term. Elective as in course 15.

18. *Roads and Pavements*. Spalding's Roads and Pavements. Lectures. Three hours. Third Term. Elective as in Course 15.

19, 20, 21. *Materials of Construction*. Laboratory investigations in Testing Materials. Given in 1895-96.

XVI, MECHANICAL ENGINEERING

PROFESSOR CLARKE AND MR. BURNHAM

All the following Courses are required of candidates for the degree of Mechanical Engineer:

1. *Kinematics*. Stahl and Woods' Elements of Mechanism. Recitations, graphical and analytical solution of problems. Three hours. First Term. Elective for those who have passed in Drawing 5 and 6, or 17 and 18.

MR. BURNHAM

9. *Thermo-dynamics of the Steam Engine*. Text-book by Prof. C. H. Peabody. Lectures, recitations and solution of problems. Three hours. Third Term. Elective for those who have passed in Physics 1, 2 and 4, and in Mathematics 12, 13 and 14.

MR. BURNHAM

3, 4, 5. *Steam Engineering*. Principles of steam engines and boilers and methods of testing. Lectures and laboratory work. Three hours. First, Second and Third Terms. Elective for those who have passed in Course 9.

MR. BURNHAM

6, 7, 8. *Materials of Engineering*. Sources, manufacture, and properties of materials. Lectures, with laboratory work. Three hours. First, Second and Third Terms. Elective for those who have passed in Mechanics 3, 4 and 6.

MR. BURNHAM

10, 11, 12, 13, 14, 15, 16. *Shopwork*. These Courses are taken by candidates for the degree of Mechanical Engineer, during successive terms from the Second Term of the Sophomore year to the Second Term of the Senior Year. Courses 10 and 11 are elective during any two terms for all other Sophomores, Juniors and Seniors.

PROFESSOR CLARKE

For Courses in Elementary Machine Drawing, Gearing, Advanced Machine Drawing, Elementary Machine Design and Advanced Machine Design, see Drawing 8, 9, 10, 11, 12, 27 and 28 on page 84.

MECHANICS

3, 4, 6. *Mechanics of Engineering: Mechanics of Solids.* Three hours. Through the year. Elective for students who have passed in Pure Mathematics 9, 10 and 12.

PROFESSOR CLARKE

7, 8, 9. *Mechanics of Engineering: Mechanics of Fluids.* Three hours. Through the year. Elective for students who have passed in Courses 3, 4 and 6.

PROFESSOR CLARKE

XVII, CHEMISTRY

PROFESSOR APPLETON, MESSRS. CALDER, SAUNDERS, SMITH
AND KNIGHTS

1. *Descriptive Chemistry.* Non-metals. Three hours. First Term. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER, SMITH AND KNIGHTS

2. *Descriptive Chemistry.* Metals. Continuation of Course 1. Three hours. Second Term. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER, SMITH AND KNIGHTS

3. *Descriptive Chemistry.* Carbon compounds. Continuation of Course 2. Three hours. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER, SMITH AND KNIGHTS

4. *Qualitative Analysis.* Three hours (six hours' attendance). First Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

5. *Qualitative Analysis continued and Quantitative Analysis begun.* Three hours (six hours' attendance). Second Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

6. *Quantitative Analysis continued.* Three hours (six hours' attendance). Third Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

Students who have passed in Courses 1-6 may elect any of the following:

7, 8, 9. *Advanced Quantitative Analysis*. Six hours (twelve hours' attendance). Through the year.

PROFESSOR APPLETON AND MR. SAUNDERS

10, 11, 12. *Organic Chemistry*. Six hours (twelve hours' attendance). Through the year.

PROFESSOR APPLETON AND MR. SAUNDERS

13, 14. *Assaying*. Six hours (twelve hours attendance). Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SMITH

15, 16. *Medical Chemistry*. Six hours (twelve hours' attendance). Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

17, 18. *Agricultural Chemistry*. Six hours (twelve hours' attendance). Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

20. *The Scouring and Dyeing of Wool*. Six hours (twelve hours' attendance.) Third Term.

PROFESSOR APPLETON AND MR. SAUNDERS

HONOR COURSES

Students who work for honors in Chemistry are expected to make some original investigations, approved by the Professor in charge. They must also from time to time furnish written reports of their progress in this work.

XVIII, PHYSICS

PROFESSOR BLAKE AND MR. PALMER

1, 2, 4. *General Course*. First Term, Mechanics and Acoustics; Second Term, Optics and Radiant Heat; Third Term, Heat and Electricity. Three hours. Through the year. Elective for Sophomores and Juniors. The course throughout the year is essentially a unit.

PROFESSOR BLAKE

5, 9, 10. *Physical Laboratory General Course.* First Term, Mechanics and Acoustics; Second Term, Optics and Radiant Heat; Third Term, Heat and Electricity. Three hours (six hours of attendance in the laboratory). Elective in connection with or after Physics 1, 2, 4.

PROFESSOR BLAKE AND MR. PALMER

3. *Elementary Course in Electricity and its Applications.* Lectures introducing the mathematical treatment of the subject, with numerous examples and frequent written exercises. Three hours. First Term. Elective for students who have passed in Physics 1, 2, 4 and Mathematics 12.

MR. PALMER

11. *Special Course in Electricity.* Design of dynamos and motors, general methods of testing, etc. Three hours. Second Term. Elective for those who have passed in Physics 3 and Mathematics 13.

MR. PALMER

15. *Electrical Engineering Laboratory Course.* Practical tests of dynamos and motors. Three hours (six hours of attendance in the laboratory). Third Term. Elective for those who have passed in Physics 5, 9, 10, 11.

PROFESSOR BLAKE AND MR. PALMER

12. *Optical Theory from the Mathematical Point of View.* Three hours. Second Term. Elective for Juniors and Seniors who have passed in Physics 1, 2, 4 and Mathematics 14, or their equivalent.

PROFESSOR BLAKE

13. *Elementary Dynamics.* Three hours. First Term. Elective for those who have passed in Physics 1, 2, 4; 5, 9, 10, and Mathematics 15.

MR. PALMER

14. *Thermodynamics.* Three hours. Second Term. Elective for those who have passed in Physics 13 and Mathematics 15.

MR. PALMER

16. *Hydrodynamics.* Three hours. Third Term. Elective for those who have passed in Physics 14 and Mathematics 16.

MR. PALMER

17, 18, 19. *Advanced Laboratory Course.* Experimental investigation of special problems. Three hours (six hours attendance in laboratory). First, Second and Third Terms. Elective in connection with or after Physics 12, 13, 14, and 16.

PROFESSOR BLAKE AND MR. PALMER

HONOR COURSES

In connection with Courses 1, 2, 4. Maxwell's "Matter and Motion" and "Theory of Heat." Tyndall's "Sound." Stokes's "On the Nature of Light." S. P. Thompson's "Elementary Lessons in Electricity and Magnetism."

In connection with Course 3. Emtage's "Electricity and Magnetism." Maxwell's "Elementary Treatise on Electricity and Magnetism."

In connection with Course 11. S. P. Thompson's "Dynamo Electric Machinery." Ewing's "Magnetic Induction in Iron and other Metals."

In connection with Course 18. Routh's "Advanced Rigid Dynamics."

In connection with Course 14. Poincaré's "Thermo-dynamique."

In connection with Course 16. Basset's "Hydro-dynamics."

XIX, ASTRONOMY

PROFESSOR UPTON

1. *General Astronomy.* Young's General Astronomy, with lectures. Three hours. First Term. Elective for Juniors and Seniors.

2. *General Astronomy continued.* Three hours. Second Term. Elective for those who have passed in Course 1.

3. *Practical Astronomy.* The application of Astronomy in Navigation and Geodesy. Theory and use of instruments. Three hours. Second Term. Elective for those who have passed in Course 1.

4. *Practical Astronomy continued.* Three hours. Third Term. Elective for those who have passed in Course 3.

7. *Scientific Method.* Lectures upon the philosophy of the Inductive and Deductive Methods of investigation, especially as used in the physical sciences. Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1894-95.

8, 9, 10. *Advanced Practical Astronomy.* Further study of the application of Astronomy to Geodesy. Method of Least Squares. Doolittle's Practical Astronomy, with use of instruments. Three hours. Through the year. Elective only for those who have shown special aptitude in Courses 3 and 4.

METEOROLOGY

1. *General Course.* Three hours. Third Term. Davis's Elementary Meteorology. Elective for Juniors and Seniors. Not offered in 1895-96.

XX, ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

PROFESSOR PACKARD

ZOÖLOGY

1. *General Course.* Three hours. Second Term. Elective for Juniors and Seniors.

GEOLOGY

1, 2. *General Course.* Three hours. First and Second Terms respectively. Elective for Seniors.

ANTHROPOLOGY

1. *General Course.* Three hours. Third Term. Elective for Seniors and graduates.

XXI, COMPARATIVE ANATOMY

PROFESSORS BUMPUS AND FIELD, MESSRS. GORHAM AND TOWER

12, 6. *Introductory Biology.* Three hours (six hours attendance). First and Second Terms. Elective for Sophomores.

PROFESSOR FIELD

1. *Practical Vertebrate Dissection.* Three hours. Third Term. Elective for Sophomores.

MR. GORHAM

7. *Experimental Biology.* Three hours (six hours attendance). Second Term. Elective for Juniors.

PROFESSOR FIELD

2. *Invertebrate Dissection.* Three hours (five hours attendance). Third Term. Elective for Juniors and Seniors.

PROFESSOR BUMPUS

3, 4. *Comparative Anatomy of Vertebrates.* Three hours. First and Second Terms. Elective for Juniors and Seniors.

PROFESSOR BUMPUS

8. *Comparative Embryology and Histology.* Three hours (six hours attendance). Third Term. Elective for Juniors and Seniors.

PROFESSOR FIELD

9. **Bacteriology*. Through the year. Open only to graduate students.

PROFESSOR FIELD

10. **Advanced Histology and Cellular Biology*. Through the year. Open only to graduate students.

PROFESSOR FIELD

11. **Advanced Comparative Anatomy*. Through the year. Open only to graduate students.

PROFESSOR BUMPUS

*The number of hours attendance required of graduate students is according to special arrangement with the head of the department.

XXII, PHYSIOLOGY

PROFESSOR CHAPIN

1. *Course in Hygiene*. Three lectures in the Freshman Lecture Course during the First Term. Required of all Freshmen.

2, 3. *Elementary Course in Physiology*. Three hours. First and Second Terms respectively. Elective for Juniors. Those who elect this course the first term are expected to pursue it the second as well.

XXIII, BOTANY

PROFESSOR BAILEY AND MR. OSTERHOUT

1, 2, 3. *Vegetable Morphology*. Three hours. Through the year. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores.

PROFESSOR BAILEY AND MR. OSTERHOUT

4, 5, 6. *Histology and Embryology of Phaenogams*. Three hours. Through the year. Elective for those who have passed in Courses 1, 2, and 3.

PROFESSOR BAILEY AND MR. OSTERHOUT

7, 8. *Structure and Development of Cryptogams*. Three hours. First and Second Terms respectively.

MR. OSTERHOUT

XXIV, MILITARY SCIENCE AND TACTICS

PROFESSOR PARDEE

1. *Practical Exercises.* Infantry and artillery drill, small arms, target practice. Three hours, First and Third Terms. One hour, Second Term. Required of first and second year men. Elective for Juniors and Seniors.

2. *Systematic and Progressive Instruction.* Lectures in Drill Regulations, Preparation of Army Reports and Returns, Organization and Administration of the United States Army, and the Principles of Strategy, Grand Tactics, and the Art of War. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

XXV, BOOKS AND READING

MR. KOOPMAN

1. *Reading for Students.* Three practical lectures, in the Freshman Lecture Course. First Term. Required of Freshmen.

2, 3. *Books and Libraries.* Lectures and Seminary work. Second and Third Terms. Second term, Historical Bibliography, Reading and its methods. Third term, Libraries, their history, place in education, management and use. Elective for Juniors, Seniors, and graduates.

XXVI, SANSKRIT LANGUAGE AND LITERATURE

PROFESSORS WILLIAMS AND SCOTT

1, 2, 3. *Introductory Course.* Grammar. Elementary Composition and Translation. Two hours. Through the year.

PROFESSOR SCOTT

4, 5, 6. *Advanced Course.* *Study of the Veda.* Not given in 1894-95; offered in 1895-96.

PROFESSOR WILLIAMS

7, 8, 9. *Advanced Course.* *Classical Literature.* Kālidāsa's Meghadūta; Sakuntalā. Bühler's Third Book of Sanskrit (Nala. Panchatantra, selections. Rāmāyana, selections). Not given in 1894-95; offered in 1895-96.

PROFESSOR WILLIAMS

Courses Suggested as Desirable for Students Preparing for Professions

Since the number of elective studies has become so great, students for the Ministry, the Law, Medicine, Journalism, or Architecture are not infrequently at a loss to know which branches they ought to choose. The following groups are meant to aid such, indicating the studies which a student with either of the above-named professions in view would find it to his advantage to elect, unless directed otherwise by special considerations. Competent students who complete these Courses with special thoroughness are able to save a year in professional schools. Besides serving candidates for degrees, these lists will afford direction to any students for the professions who may be obliged to limit their collegiate preparation to one, two, or three years. No degrees will be awarded at the completion of such shorter courses, but Certificates of Attainment will be furnished when desired.

I. Suggested Course Preparatory to the Study of Theology

FIRST YEAR

The regular Freshman Course for the Degree of Bachelor of Arts.
See page 46.

SECOND YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 2, Rhetoric 19, German 1, Greek 4, English 7, Botany 1 or Comparative Anatomy 12.	Rhetoric 3, Rhetoric 20, German 2, Greek 5, English 8, Botany 2 or Comparative Anatomy 6.	Rhetoric 4, Rhetoric 21, German 3, Greek 6, English 9, Botany 3 or Comparative Anatomy 2.

For Greek, Latin or French may be substituted. Chemistry may also be taken here, and followed in the third year by Astronomy. Those studying no foreign language may well begin English now, continuing it through two years. A course in the Semitic tongues may be begun at this point, to continue one, two, or three years, displacing the studies least to the pupils taste. Other Courses in English may, for certain pupils, be preferable to 7, 8, 9.

THIRD YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 2, English 4, Rhetoric 22, Oriental History 1, Political Economy 1, History 1.	Philosophy 3, English 5, Rhetoric 23, Oriental History 2, Political Economy 2, History 2.	Philosophy 19, English 6, Rhetoric 24, Oriental History 3, Political Economy 3, History 3 or 11.

FOURTH YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 5 and 8, History 7, Hebrew 1, Social Science 1.	Philosophy 9 and 6, History 8, Hebrew 2, Social Science 2.	Philosophy 10 and 15, History 9, Hebrew 3, Social Science 3.

In this fourth year, instead of Philosophy 16 and 7, History may be continued, or other Courses in Philosophy be taken. Also Courses in Philosophy, in History, or in Literature may take the place of Hebrew or of Social Science.

II, Suggested Course Preparatory to the Study of Law

FIRST YEAR

The regular Freshman Course for the degree of Bachelor of Arts. See page 46.

Required :

SECOND YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 2, Rhetoric 19, German 1.	Rhetoric 3, Rhetoric 20, German 2.	Rhetoric 4, Rhetoric 21, German 3.

Elective, three courses, two from the first and one from the second of the following groups :

GROUP 1

Greek 6, Latin 4, French 4, English 7.	Greek 5, Latin 5, French 5, English 8.	Greek 4, Latin 6, French 6, English 9.
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GROUP 2

Mathematics 9, Chemistry 1, Physics 1.	Mathematics 10, Chemistry 2, Physics 2.	Mathematics 11 or 12, Chemistry 3, Physics 3.
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THIRD YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 2, Rhetoric 22, History 1, Political Economy 1, Political Science 1, Elementary Law 1.	Philosophy 3, Rhetoric 23, History 2, Political Economy 2, Political Science 2, Elementary Law 2.	Philosophy 19, Rhetoric 24, History 3, Political Economy 3, Political Science 3, Elementary Law 3.

FOURTH YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy, 1 course, Social Science 1, Political Economy 4, History 4, Elementary Law 1.	Philosophy, 1 course, Social Science 2, Political Economy 6, History 5, Elementary Law 2.	Philosophy, 1 course, Social Science 3, Political Economy 5, History 6, Elementary Law 3.

III, Suggested Course Preparatory to the Study
of Medicine or Biological Science

FIRST YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 1, French 1 or German 4, Drawing 2, General Lecture, Botany 1, Rhetoric 2, Rhetoric 19.	Mathematics 3, French 2 or German 5, Drawing 3, Rhetoric 8, Botany 2, Rhetoric 3, Rhetoric 20.	Mathematics 2, French 3 or German 6, Drawing 4, Rhetoric 9, Botany 3, Rhetoric 4, Rhetoric 21.

Candidates for the degree of Bachelor of Arts will take during the Freshman year the regular course scheduled on page 46.

SECOND YEAR		
<i>First Term</i>	<i>Third Term</i>	<i>Second Term</i>
German 1, French 4, Rhetoric 5, Comparative Anatomy 12, Physics 1. Chemistry 1.	German 3, French 6, Rhetoric 7, Comparative Anatomy 1, Physics 4, Chemistry 3.	German 2, French 5, Rhetoric 6, Comparative Anatomy 6, Physics 2, Chemistry 2.

Candidates for the degree of Bachelor of Arts take Rhetoric and Elocution in place of French.

THIRD YEAR		
<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 2, Rhetoric 22, History 1, Physiology 2, Chemistry 4, Political or Social Science 1, Anatomy in German.	Philosophy 3, Rhetoric 23, History 2, Physiology 3. Chemistry 5, Zoölogy 1 or Compar- ative Anatomy 7.	Philosophy 19, Rhetoric 24, History 3, Philosophy 4, Chemistry 6, Comparative Anat- omy 2.

FOURTH YEAR		
<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy, 1 course, Comparative Anat- omy 3, Geology 1. Chemistry 10.	Philosophy, 1 course, Comparative Anat- omy 4, Geology 2. Chemistry 15, Comparative Anat- omy 7, Zoölogy 1.	Philosophy, 1 course, Comparative Anat- omy 8, Anthropology, Chemistry 16.

IV, Suggested Course Preparatory to the Pursuit of Journalism

FIRST YEAR

The Freshman Course for the degree of Bachelor of Arts. See page 46.

SECOND YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 2,	Rhetoric 3,	Rhetoric 4,
Rhetoric 19,	Rhetoric 20,	Rhetoric 21,
English 27,	English 28,	English 29,
German 1,	German 2,	German 3,
Physics 1,	Physics 2,	Physics 4,
Chemistry 1,	Chemistry 2,	Philosophy 1,
Drawing 2.	Drawing 3.	Drawing 4.

THIRD YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 2,	Philosophy 3,	Philosophy 19,
History 1,	History 2,	History 3,
Rhetoric 10,	Rhetoric 11,	Rhetoric 12,
Rhetoric 22,	Rhetoric 23,	Rhetoric 24,
English 27,	English 10,	English 11,
Political Economy 1,	Political Economy 2,	Political Economy 3,
Elementary Law 1.	Elementary Law 2.	Elementary Law 3.

FOURTH YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Rhetoric 13,	Rhetoric 14,	Rhetoric 15,
Rhetoric 5,	Rhetoric 6,	Rhetoric 7,
Philosophy, 1 course,	Philosophy, 1 course,	Philosophy, 1 course,
Elementary Law,	Elementary Law,	Elementary Law,
History 7,	History 8,	History 9,
Political Science 1,	Political Science 2,	Political Science 3,
Social Science 1.	Social Science 2.	Social Science 3.

To proficiency in French and German, knowledge of the Italian and Scandinavian languages might be added with advantage.

Topics relating to practical journalism are discussed from time to time before the students by men of large experience in the profession.

Suggested Courses Preparatory to the Pursuit of Architecture

COURSE A

FIRST YEAR

The regular Freshman Course for the degree of Civil Engineer or of Mechanical Engineer. See pages 50 and 51.

SECOND YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 9, Chemistry 1, German 1, Physics 1, Drawing 7, Drawing 21.	Mathematics 10, Chemistry 2, German 2, Physics 2, Architecture 1. Drawing 23.	Mathematics 12, Chemistry 3, German 3, Physics 3, Architecture 2, Drawing 24.

THIRD YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 2, History 1, Mechanics 3, Architecture 9, Fine Arts 1.	Philosophy 3. History 2, Mechanics 4, Architecture 10, Fine Arts 2.	Philosophy 19. History 3, Mechanics 6, Architecture 11, Fine Arts 3.

FOURTH YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mechanical Engineer- ing 6, Architecture 3, Architecture 16, Geology 1, Drawing 31, Political Economy 1.	Mechanical Engineer- ing 7, Architecture 4, Architecture 17, Geology 2, Drawing 32, Political Economy 2.	Mechanical Engineer- ing 8, Architecture 5, Architecture 18, Geology 3, Drawing 33, Political Economy 3.

While Course A is an excellent preparation for further professional study, it is intended especially to meet the wants of those whose time and means are limited, and who must obtain at the University whatever professional training they are to possess.

For those who can afford to go to a technical institution the following Course is suggested :

COURSE B

FIRST YEAR

The regular Freshman Course for the degree of Bachelor of Arts.
See page 46.

SECOND YEAR

The required Sophomore studies for the Bachelor of Arts Course,
and the following Electives:

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Drawing 16,	Drawing 17,	Drawing 18,
Drawing 2,	Drawing 3,	Drawing 4,
Physics 1,	Physics 2,	Physics 3,
Mathematics 9.	Mathematics 10.	Mathematics 12.

THIRD YEAR

The required Junior studies for the Bachelor of Arts Course and the
following Electives:

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Drawing 7,	Architecture 1,	Architecture 2,
Drawing 21,	Drawing 22,	Drawing 23,
Mechanics 3,	Mechanics 4,	Mechanics 6.
Fine Arts 1.	Fine Arts 2.	Fine Arts 3,
		Law 3 or Fine Arts 6.

FOURTH YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Political Economy 1,	Political Economy 2.	Political Economy 3.
Architecture 9,	Architecture 10,	Architecture 11,
Architecture 3,	Architecture 4,	Architecture 5,
Architecture 17,	Architecture 18,	Architecture 19,
Geology 1,	Geology 2,	Geology 3,
Drawing 31.	Drawing 32.	Drawing 33.

INSTRUCTION FOR GRADUATE STUDENTS

Brown University offers excellent facilities for graduate study, to which its own graduates and those of other colleges are alike welcome. Not only are the libraries and the laboratories of the University, its seminaries, its observatory, and its various museums, all of a nature greatly to assist advanced study, but the industries of the City of Providence offer numerous and rare opportunities for special scientific investigations.

A Graduate Students' Association, composed of the students carrying on advanced courses at the University, holds monthly meetings during the year, at which papers embodying the results of special investigations are read. Addresses are also made by members of the Faculty and others on topics connected with graduate work. See further, under "Philosophy," for Philosophical Club, and under "Comparative Anatomy," for Biological Club.

The following courses of instruction are at present available for graduate students, those marked with a star being intended primarily for such students, the rest meant also for higher undergraduate work. Candidates for graduate degrees and other advanced pupils will find all of these courses, in both methods and subjects, exceedingly helpful. The numbers of the courses refer to the general conspectus, pages 55 to 94, inclusive.

In Philosophy

All the elective courses in Philosophy are suitable for graduate students who have not taken them.

In the Classics

Greek 16, 17, 18. The Dramatists. Aeschylus and Sophocles, with selected plays of Euripides and Aristophanes. Three times a week.

Greek 25,* 26,* 27.* Seminary. Plato and Aristotle. First half year, the *Republic*, second half year, the *Politeia* of Athens, and the *Politics*. Two hours.

Latin 7, 8, 9. History and Development of Roman Poetry. Three times a week. Through the academic year 1895-96.

Latin 11, 12, 13. History and Development of Latin Prose. Three times a week.

Roman Antiquities. Weekly. Through the year.

History of Art 1, 4, 6. Three times a week. Through the year.

Fine Arts 7, 3, 8. History of Art. Three times a week. Through the year.

Special Courses are offered for advanced students.

In the Semitic Languages

Hebrew 1, 2, 3. Three times a week. Through the year.

Hebrew 4, 5, 6. Critical Study of Isaiah. Three times a week. Through the year.

Hebrew 7. Syntax and Reading. Three times a week. First Term.

Hebrew 8. The Pentateuch. English text. Revised version. Three times a week. Second Term.

Aramaic 1, 2. Three times a week. Second and Third Terms.

Arabic 1, 2, 3. Three times a week. Through the year.

Assyrian 1, 2, 3. Three times a week. Through the year.

In Rhetoric and English

Rhetoric 5, 6 7. Historical Course. Weekly. Through the year.

Rhetoric 10, 11, 12. Advanced Composition. Theme Writing. Weekly. Through the year.

Rhetoric 13, 14, 15. Advanced Composition. Thesis Writing. Weekly. Through the year.

Rhetoric 25, 26. Seminary. One hour a week. First and Second Terms.

English 4, 5, 6. Shakspeare and the English Drama. Three times a week. Through the year.

English 10, 11. Elementary Anglo-Saxon. Three times a week. Second and Third Terms.

English, 12, 13, 14. Anglo-Saxon Poetry. Béowulf and the Elene. Three times a week. Through the year.

English 24, 25, 26. Middle English. Three times a week. Through the year.

English 18, 19. The Novel. Three hours. First and Second Terms.

English 16, 17. American Literature. Three Hours. Second and Third Terms.

English 34, 35, 36. Shakspeare's Dramatic Art. Three times a week. Through the year.

English 20.* 21.* 22.* Seminary. Two hours. Weekly. Through the year.

English 31, 32, 33. Eighteenth Century Literature. Three times a week. Through the year.

In History, Social and Political Science, and Political Economy

History 7, 8, 9. Constitutional and Political History of the United States. Three times a week. Through the year.

History 10.* Principles of Historical Criticism. Weekly. Through the year.

History 12.* Practical Exercises in Historical Criticism. One hour. Third Term.

History 13.* History of Historical Writing in Modern Europe. Weekly. First and Second Terms.

History 14.* American History. Special Course. One hour. Through the year.

History 3. History of the Reformation. Three times a week. Third Term.

History 11. History of the Renaissance. Three times a week. Third Term.

Historical Seminary.* Special meetings during each Term.

Political Science 5.* Development of Political Theory. Three times a week. First Term.

Political Science 6.* Roman Law. Three times a week. Second Term.

Social Science 4.* Social Philosophy. Three times a week. Third Term.

Seminary of History, Political Economy, and Political Science.* Once in two weeks. Through the year.

Political Economy 4. History of Economic Thought. Three times a week. Second Term

Political Economy 6. Money and Banking. Three hours, Second Term.

Political Economy 5. Public Finance. Three times a week. Third Term.

Oriental History 1, 2, 3. The Ancient East. Islâm. The Crusades. Three times a week. Through the year.

In Modern Languages

German 4-9 inclusive. Lessing, Schiller, Goethe. Six times a week. Through the year.

German 16,* 17,* 18.* German Literature. Three times a week. Through the year.

German 10,* 11,* 12.* Middle High German. Weekly. Through the year.

German 13,* 14,* 15.* Middle High German, Advanced. Weekly. Through the year.

German 37,* 38,* 39.* Middle High German. Continuation of Course 15. Weekly. Through the year.

German 19,* 20,* 21.* Old High German. Weekly. Through the year.

German 28,* 29,* 30.* Germanic Mythology. Weekly. Through the year.

Gothic 1,* 2,* 3.* Weekly. Through the year.

Old Norse 1,* 2,* 3.* Weekly. Through the year.

Old Norse 4,* 5,* 6.* Advanced. Weekly. Through the year.

Dutch 1, 2, 3. Weekly. Through the year.

Dutch 4,* 5,* 6.* Advanced. Weekly. Through the year.

German 34,* 35,* 36.* Germanic Philology. Weekly. Through the year.

German 43, 44, 45. Scientific German. Four times a week. Through the year.

Swedish 1, 2, 3. Weekly. Through the year.

Dano-Norwegian 1, 2, 3. Weekly. Through the year.

Old Saxon 1,* 2,* 3.* Weekly. Through the year.

French 22,* 23,* 24.* Advanced Course in writing and speaking French. One hour. Through the year.

French 10,* 11,* 12.* Literature of the Nineteenth Century. Two hours weekly. Through the year.

French 28,* 29,* 30.* Literature of the Eighteenth Century. Weekly. Through the year.

French 16,* 17,* 18.* Literature of the Sixteenth Century. Weekly. Through the year.

French 21,* 31,* 32.* Old French. Weekly. Through the year.

French 25,* 26,* 27.* Provençal. Weekly. Through the year.

Italian 4,* 5,* 6.* Classical Course. Dante, Petrarch, Boccaccio. Two hours. Through the year.

Spanish 4,* 5,* 6.* Classical Course. Two hours. Through the year.

In Pure and Applied Mathematics

Pure Mathematics 11. Modern Methods in Analytic Geometry. Three times a week. Third Term.

Pure Mathematics 8. Theory of Equations and Determinants. Three times a week. Third Term.

Pure Mathematics 14. Applications of the Calculus. Three times a week. Second Term.

Pure Mathematics 15 and 16. Differential Equations. Three times a week. First and Second Terms.

Pure Mathematics 17.* Theory of Functions. One hour. Through the year.

Pure Mathematics 18,* 19,* 20.* Modern Algebra. Higher Plane Curves, Surfaces. Three hours. Given in 1895-96.

Pure Mathematics 21,* 22,* 23.* Theory of Functions. Three hours.

Pure Mathematics 24.* Special course of reading. Quaternions, Non-Euclidean Geometry, Hyper-Space.

Drawing 9. Gearing. Three hours. Third Term.

Drawing 10, 11. Advanced Machine Drawing. Three hours. First and Second Terms.

Drawing 12. Elements of Machine Design. Three hours. Third Term.

Drawing 15. Constructive Geometry. Three hours. First Term.

Drawing 27, 28. Advanced Machine Design. Three hours. First and Second Terms.

Surveying. Courses 5 to 21 inclusive.

In Chemistry

None of the Courses in Chemistry are exclusively for graduates; but of the advanced Courses, Nos. 4-20, inclusive, will be found appropriate for graduates who have not pursued them. Graduate students are afforded all practicable facilities for carrying on, in the Chemical Laboratory, investigations approved by the Professor in charge. Graduate degrees in Chemistry will be conferred only after a large amount of laboratory work.

In Physics and Astronomy

Physics 12. Optics. Three hours. Second Term.

Physics 13. Elementary Dynamics. Three hours. First Term.

Physics 14. Thermodynamics. Three hours. Second Term.

Physics 16. Hydrodynamics. Three hours. Third Term.

Physics 17, 18, 19. Advanced Laboratory. Three hours (six hours attendance in the laboratory). First, Second, and Third Terms.

Astronomy. For graduates who wish to pursue advanced courses in this branch, Courses 8, 9 and 10 are available, and additional work is assigned in theoretical and practical Astronomy. Such students may also assist in the regular observations carried on at the Observatory.

In Comparative Anatomy and Anthropology

Comparative Anatomy 12 and 6. Introductory Biology. Three times a week. First and Second Terms.

Comparative Anatomy 1. Practical Vertebrate Dissection. Three times a week. Third Term.

Comparative Anatomy 7. Experimental Biology. Three times a week. Second Term.

Comparative Anatomy 2. Invertebrate Dissection. Three times a week. Third Term.

Comparative Anatomy 3 and 4. Comparative Anatomy of Vertebrates. Three times a week. First and Second Terms.

Comparative Anatomy 8. Comparative Embryology and Histology. Three times a week. Third Term.

Comparative Anatomy 9. Bacteriology. Through the year.

Comparative Anatomy 10. Advanced Histology and Cellular Biology. Through the year.

Comparative Anatomy 11. Advanced Comparative Anatomy. Through the year.

In Botany

Botany 4, 5, 6. Histology and Embryology of Phaenogams. Three times a week. Through the year.

Botany 7, 8. Structure and Development of Cryptogams. Three times a week. First and Second Terms.

GENERAL DESCRIPTION

OF THE

INSTRUCTION

IN THE SEVERAL DEPARTMENTS

I, PHILOSOPHY

The primary aim both in the required and in the elective studies of this department, is to strengthen and discipline the mind of the pupil and, so far as possible, to render him a safe, strong, and independent thinker and investigator.

Psychology is taught as an empirical and experimental science. The philosophical problems involved, though necessarily left unsolved, are yet clearly pointed out. Thus the required course not only affords a constant stimulus to introspection, but also forms a valuable transition from the special sciences to philosophy. In the advanced courses the student is introduced to the chief lines of psychological experiment, and is given an opportunity to study further the most interesting problems and to pursue original investigations in the laboratory.

The courses in Logic are intended to exhibit the principles of correct thought, whether of the ordinary or of the scientific type. That known as Philosophy 1 deals more especially with the general laws and forms of logical thought; and Astronomy 7 is devoted to their application in scientific method. The course in Philosophical Introduction is meant, by awakening reflection on the ultimate problems of life and mind, to prepare the student for the higher courses in pure philosophy.

The treatment of the History of Philosophy is not merely analytic or historical, but synthetic and constructive; the successive philosophical systems are studied in their dialectical development and mutual relations. In addition to the general courses on the history of philosophy, there are special courses for the minute study of individual authors representative of the different periods.

The practical purpose present in all the studies of this department becomes especially pronounced in Ethics, the theoretical course in which is intended to aid the student in mastering the fundamental problems of conduct and character. Special attention is given, in separate courses, to the topics of Practical Ethics and Casuistry now of such peculiar interest to the world.

In the Courses on the Philosophy of Religion, the metaphysical basis of religion is investigated, and an interpretation of the religious and especially the Christian consciousness is attempted.

The Course in Pedagogy deals with the history, theory and practice of organized education. It affords rich discipline of mind, and intending teachers, particularly, will find it invaluable as a preparation for their work.

In the Philosophical Seminary the more difficult problems of Logic, Metaphysics, and Philosophy of Religion are made the subject of informal but specially thorough discussion.

A Philosophical Club, consisting of graduate and Senior students of philosophy in all its branches, has also been formed for the encouragement of the independent discussion of philosophical questions and for the fostering of a more intelligent interest in the subject among the members of the University. The Club meets once a month for the reading of papers, followed by free discussion. Though the organization is primarily in the hands of the students, the instructors in the philosophical department and other persons interested in philosophy but not members of the University, are usually present to take part in the proceedings.

II, GREEK LITERATURE AND HISTORY

The studies in this department are prescribed for the Freshman year, and elective for the Sophomore, Junior and Senior years.

The work of the first two years is designed to secure (1) a good linguistic discipline; (2) a general view of Greek literature, brought home by careful study of representative masterpieces in various departments; and (3) as complete a view as possible of the life and genius of the Greeks and their place in the history of civilization. In connection with this work, it is a constant aim to facilitate the acquisition of the language by the utmost possible use of it, as in sight reading, translation at hearing, and conversation on the subject in hand.

These studies are intended to have a certain rounded completeness in themselves, and to be at the same time a sufficient introduction to the advanced courses of the last two years.

These advanced courses contemplate a wider range of reading, and a more liberal study of literature and history in the light of our accumulated knowledge of Greek lands and peoples. Each course will cover, so far as possible, the entire extant works of an author or department of the literature. For example, the classical historians, Herodotus, Thucydides, and Xenophon, and the Attic orators, in two alternating courses, may be taken as traversing the whole field of Greek History and Politics down to the death of Epaminondas, and as bringing out the chief traits of Greek social life in the classical period. Like courses are offered in the Epic, Lyric and Dramatic Poets. Still others will be developed as fast and far as the working force of the Department may suffice, and they will be so arranged that any student may follow two or more of them during the last two college years. Various short courses, linguistic, literary and archaeological, will be given as auxiliary to these.

A one-hour course in the Greek New Testament is offered this year, and opportunity is also given for the study of the living language and current literature of the Greeks.

For those who are candidates either for the higher degrees or for honors, courses of reading and study are marked out according to individual needs.

The President's Premiums for excellence in preparatory Greek studies are awarded after a special examination at the beginning of the Freshman year.

The Foster Premium for the highest excellence in the Greek language is awarded after a critical examination toward the close of the Senior year.

III, ROMAN LITERATURE AND HISTORY

The studies in this department, as in Greek, are prescribed for the Freshman year, and elective for the Sophomore, Junior, and Senior years. The courses of study have been specified in preceding pages, but other authors than those named may be read in different years.

The courses of the Freshman year are based upon prose writers. While grammatical study and literary criticism receive attention, the special aim is to enable the student to acquire facility in reading, and to instruct him in the use of the Latin texts as a means of acquiring a knowledge of the public and private life of the Romans. Special topics are assigned to committees and to individual students for investigation, and lectures are given by the instructors.

The courses which are open to the Sophomores relate to lyric poetry and to satire. The literary side of the study is made prominent. The instructor endeavors to aid the student in appreciating the characteristics of Roman thought and the literary quality of Roman poetry. A part of the time is occupied with a critical study of the form and structure of the poems, while a part is devoted to rapid reading with a view to comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

The advanced course, open to Juniors and Seniors, relates to the development and history of Roman literature. Poetry

and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman Literature. Comparatively little time is occupied with the formal work of recitation. Lectures are given by the instructor on the lives and writings of the authors, and characteristic selections are read and discussed. Topics in literary history and criticism, adapted to individual tastes, are assigned to members of the class for special study and investigation.

The President's Premiums for excellence in preparatory Latin are awarded after a special examination at the beginning of the Freshman year.

The Lucius Lyon Premiums for excellence in the Latin Language and Literature are awarded after a special examination held toward the close of the Senior year.

Classical Seminary

In the interest of high and independent scholarship in the classical departments, a commodious room has been opened in Sayles Memorial Hall for the purposes of a Classical Seminary. It is supplied with an extensive special library purchased with funds generously contributed by friends of the University interested in Classical Studies. The books have been selected with special reference to the needs of advanced students. It is the aim of the departments to make this room with its literary treasures and other appliances an attractive and inspiring place for independent work, where students pursuing special lines of study and research may find within their reach the needed helps.

The Seminary is primarily intended for graduates and honor students, but it is open also to such members of the elective classes in the departments as are qualified to profit by its advantages.

The room is lighted by electricity and is open throughout the day and evening.

IV, THE FINE ARTS

The courses of instruction in the Fine Arts are both theoretical and practical. The theoretical courses deal chiefly with the History of Art, considered with reference to peoples and periods. The purpose of each course is to show the development of Art as a whole, for the people and period selected, while tracing it in the several fields of Architecture, Sculpture, Painting, and the Minor Arts. The relation of this development to the existing political and social conditions is also carefully observed. Art is studied for its own sake, as a vital manifestation of the human spirit, and as an important factor of history. Some attention is given to Theory and Criticism of the Fine Arts.

The practical courses at present are courses of instruction in Architecture. It is hoped that instruction in the practice of the other arts may soon be added.

History and Criticism

The courses of instruction in History and Criticism of the Fine Arts, open to Seniors, Juniors and graduate students, are of two kinds, general and special. The general courses are adapted to the acquirements of the average student, and are so arranged as to meet the needs of those who wish merely a brief but comprehensive view of the subject. At the same time they are a preparation for the special courses, for which also some special attainment, particularly in the use of the languages containing technical literature, is an indispensable requirement.

A general course in Ancient Art, or Classical Archaeology, is offered. In this a rapid review of the art of Egypt and of the Orient precedes the study of the earliest Hellenic art. The development of Greek art through its several periods and in its different schools follows, and the course closes with the decadence of art in the Roman period. The text-book, Collignon's Manual of Greek Archaeology, is supplemented by lectures and by collateral reading. The plaster casts in the

Museum of Classical Archaeology, lantern views, photographs and engravings are used to illustrate the subject.

The object of this study is to bring the student near to those quickening and controlling motives in ancient life, especially in the life of the Greek people, which found expression in the forms of Art. The attempt is made to study the most significant specimens, to note the most important facts, and to secure a solid basis for later and more special studies in Archaeology and in the Criticism of Art.

A knowledge of Greek, Latin, German and French is most helpful to those who pursue even the general courses, but is not indispensable.

In the special courses in Classical Archaeology the subject is treated more in detail, and the sources are studied. This involves the reading of the ancient literature on the subject, the works of modern investigators and explorers, and as critical a study of the monuments as the means of illustration at command allow.

A similar method is followed in the later periods. The earlier courses are general, brief, and comprehensive, and preparatory also to the later special courses. The first of these general courses covers the history of art from the early Christian period to the end of the mediæval period. The subjects considered are the relations of the early Christian art to the decaying Pagan art, the new use of old elements and the introduction of new, Byzantine art and its influence on Arabian or Saracenic art, as well as on the art of western Christendom, and the art of the periods generally known as Romanesque and Gothic. In the study of Romanesque and Gothic, Architecture naturally has a prominent place as the predominant element in mediæval art, yet the other arts receive due consideration. The two periods are regarded as two connected stages in a process of evolution. In passing, brief notice is taken of art in the Orient, Persia, India, China and Japan.

Another of these general courses treats of art in the Renaissance. In this rich field of study the effect on art of the dominant motives of the epoch is recognized, the development of art in the different countries of Europe is traced, and the great masters and their most significant works are studied.

As a sequence to the history of the art of the Renaissance, a general course in the history of modern art is offered. The first period considered is the Seventeenth Century. Art from that century until the present day, in the various countries of Europe and in America, is then studied, so far as the time allows.

For those who wish to study the subject more thoroughly, special courses are arranged, whenever a sufficient number of students apply for instruction and the time of the instructor permits.

A course in the study of criticism is also offered. It is mainly a history of Aesthetics, the theory of the Beautiful.

Architecture

The aim of the Course in Architecture is to give a foundation for further study in the technical school, and to furnish a thorough preparation for office work of the more practical kind to those whose time and means are limited. The constructive and the artistic side of Architecture are both dealt with. The courses in Construction are taught with reference to the best practice of the day, both in the office and upon the works; yet the student is led to see the reason for each step he takes, and for each process and formula he discusses. The course in historic drawing, at present only a beginning, aims, in co-operation with the indicated courses in the Fine Arts, which cover the purely descriptive historical ground, to give the student a safe basis for future work in design. The ancient masterpieces are studied and drawn both as wholes and in detail. The construction of them is analyzed and explained and their place in the line of structural and artistic development pointed out.

This work is preceded by a course in the Orders, which begins the architectural work, taking the student after his course in Shades, Shadows and Perspective. Here he gains familiarity with architectural ideas, modes of thinking and expression. The study of rendering is here begun, and is carried on in the historic course, of which it forms an important part.

In constructive drawing the student is taught architectural drawing as it is practiced every day in the working office. Sketch plans, quarter scale working-drawings, framing plans, and scale and full-sized details of buildings are made and the specifications for them are written. Plumbing, Heating, and Ventilation are studied both in theory and in result as seen in actual structures.

The courses in Freehand Drawing, elementary and advanced, are used to train the student in that means of expression which should be as familiar to him as language. A special course is given in purely architectural work, and out-of-door sketching is encouraged, both with instruction and without. In the latter case the drawings are criticised before the class.

All students are encouraged in individual as well as in class work. Time is devoted to visiting and examining interesting buildings, complete and incomplete, with discussion and criticism of their merits and defects, structural and artistic.

For the work done by the University in Mechanical Drawing, with which that above described is of course closely related, see later, under "Drawing."

V, SEMITIC LANGUAGES AND ORIENTAL HISTORY

In the elementary courses in Hebrew, Arabic, and Assyrian, an effort is made to ground the student thoroughly in the principles of the grammar of these several languages, and to enable him to translate easy prose with facility. In Hebrew, for example, after the elements of grammar and the first eight chapters of Genesis have been studied carefully by

means of Harper's text-books, easy narrative prose is taken up, to be followed by more difficult selections as the student's grasp of the language improves.

Two advanced courses in Hebrew are offered. In the first of these, which occupies the first term, while special attention is given to the syntax, the student's vocabulary is increased by the reading of selections from the Historical Books and the Psalms. The second advanced course, which is given one hour a week through the year, is devoted to the study of the Book of Isaiah. Careful attention is paid not only to the translation of the Hebrew text but to the condition of that text itself, and to some, at least, of the critical questions which arise in connection with this interesting Scripture.

During the second term a three hour course in the study of the Pentateuch is offered. For this course no knowledge of Hebrew is required on the part of the student, as the work done is based on the Revised Version of the Bible. Special attention is paid to the modern theories touching the origin and structure of the Pentateuch, and the student is encouraged to study carefully the arguments for and against these theories and to arrive at an independent judgment as to their value.

In Oriental History three courses are offered, any one of which may be taken independently of the other two. The first, which runs through the first term, is designed to present a general survey of the ancient Orient, and the endeavor is made to give the student some insight into the great civilizations of the valley of the Nile and of the Tigris and Euphrates. Special attention is paid to the history of the Semites. The geography of Palestine is studied, and photographs of many of its most interesting spots are shown.

In the second term a course on the rise and spread of Islâm is offered. The life of Mohammed, the religion which he founded, and the Koran, which is the chief oracle of that religion, are studied. Then follows a general survey of the conquests of the Moslems, till the conflict of East with West in the Crusades.

In the third term the history of the Crusades is considered, with special reference to the history of Islâm during the Eleventh, Twelfth, and Thirteenth Centuries.

All the courses in this department are open to graduate students, and additional courses are arranged for any students possessing the necessary preparation, who may desire to do advanced work.

VI, RHETORIC AND ORATORY

The aim of the instruction in Rhetoric is to give a thorough and systematic training in the principles and practice of English Composition. The different kinds of composition are set forth in their logical relations to each other; and essays and orations, whose plans are based upon specific, rhetorical methods, are required from students.

In the Freshman year the purpose is to ground students in the principles of rhetorical construction as applied to the Sentence and the Paragraph. Particular attention is also paid to the formation and analysis of the Plan as a fundamental process in composition.

In the Sophomore year the subject of Style is studied, with reference to the characteristics of prose diction as determined by the subject and occasion. General processes in the discovery and arrangement of material are also considered, including different forms of presenting the same. Narration, description, exposition, argumentation and persuasion are discussed theoretically, and practically applied in essays, six in all during the year, written according to the principles of each method. Readiness of expression is cultivated by means of composition in the class-room, upon themes with which the student is sufficiently familiar to begin a thought-process at once. These paragraphs, as well as the essays mentioned above, are subject to criticism and correction. Reports upon subjects assigned for personal research are from time to time presented in writing. There are also oral discussions of questions having present interest. In addition, the rhetorical analysis of English mas-

terpieces is made a part of the daily recitation. Almost every type of writing is examined in this way, concluding with a study of the Oration as a special and comprehensive literary form, and as preparatory to the rhetorical work of the following year. An Honor Course in the science of Rhetoric is offered to this class.

In the Junior year five orations are required of each student. After correction, revision, and rehearsal before the Instructor in Elocution, they are delivered in the presence of the class.

A course of lectures on the History of Oratory is given during the year, to which members of the Senior and Junior classes are admitted. The periods covered by these lectures may be designated as the Greek, Roman, Patristic, Mediaeval, Reformation, Parliamentary, and Congressional. Occasional oratory is considered under the forms to which it belongs. An Honor Course in Deliberative Oratory is offered to those who attend these lectures.

Honor courses in Oratorical Analysis are also offered to Juniors in connection with the required work of the department, and an advanced Seminary Course in Oratorical Criticism during the first two terms to Seniors and graduate students.

Advanced Rhetorical studies are pursued by the teaching force of this Department associated as a Seminary under the name of The Round Table.

ELOCUTION

The instruction in Elocution for the Sophomores includes lectures on the fundamental principles of speech: breathing, formation of tone, articulation, pronunciation, stress, emphasis, position, gesture, with such drill exercises in vocal development as will assist the student to become an effective speaker. Oral readings and frequent declamations by members of the class afford opportunity for personal criticism and for the correction of individual faults in utterance.

For the Juniors the work of the year consists in the writing, the rehearsal, and the public delivery before the class, of five orations by each member.

The Seniors have especial drill preparatory to commencement.

VII, ENGLISH LITERATURE AND LANGUAGE

Courses are offered in both language and literature. In the main the two kinds of work are kept apart, the belief being that each can be done more thoroughly by itself.

The elementary course in Anglo-Saxon is intended to serve as an introduction to the more advanced courses in language work and to prepare students to read ordinary Old English prose. In the advanced course in Anglo-Saxon, *Béowulf* and the *Elene* are read, with attention to both language and antiquities; and one hour a week is devoted to the special study of English Phonology. The work in Middle English consists in extensive reading of Middle English texts and the study of Middle English dialects. The course in Chaucer is linguistic, chiefly aiming to introduce the student to Chaucer's poetry and to enable him to read it intelligently. The linguistic course in Shakspeare is devoted to the interpretation of the texts of selected plays.

The courses in Spencer, Milton, and Nineteenth-Century English Poetry are elementary. They aim to cultivate a taste for good literature and the habit of careful reading, to lay the foundation for a critical appreciation of poetic form, and to enrich the mind by familiarity with the thoughts of great poets. In the course in American Literature an outline of the Colonial and Revolution periods is given by lectures. A critical estimate of nineteenth-century authors is attempted, with special reference to American conditions and to contemporary literature in England. The work cannot be done satisfactorily except by students already possessing considerable literary knowledge and critical acumen. The course in Shakspeare's Dramatic Art presupposes an accurate knowledge of

Shakspeare's language, as a necessary preliminary to intelligent study of his art. The characteristics of the Drama as a literary type are noted, the historical Development of the English Drama is briefly sketched, and Shakspeare's plays are then read in chronological order to trace the development of his mind and art. A dozen or more plays are studied minutely with regard to style, verse, plot, character-portrayal, and thought.

The Novel course is similar in outline and method, dealing with the relation of the Novel as a literary form, to modern life, and with the historical development of the English Novel, and the form and substance of great English and American novels of the eighteenth and nineteenth centuries. The course in Eighteenth-Century Literature exclusive of the Novel, consists chiefly in rapid reading supplemented by lectures. Special attention is paid to social conditions and to the significance of the period in the historical development of English literature.

The purpose of the Seminary is to afford training in methods of independent literary study of a somewhat advanced nature. Each student is required to work up special topics and present his results in the form of a lecture, which is discussed and criticised by the Seminary. For graduate students in residence special courses are laid out in the History of the Drama, Poetics, the History of English Literature, etc.

In all the literary courses the literature itself is studied at first hand, the work is made at once literary and definite, and the student is required to do for himself as much as possible. The extensive and the intensive method are combined: wide reading to get literary atmosphere and width of view, critical study of smaller portions to develop accuracy and acumen. Historical conditions are carefully studied, but the main emphasis is placed upon the permanent worth of the literature as an art-expression of life. The end sought is culture rather than information for its own sake.

VIII, HISTORY

The course of instruction in History continues throughout the Junior and the Senior year. During the first two terms of the Junior year it is required. Except in these two instances, all the courses are elective. All are open to both Juniors and Seniors, except the courses in American History, which, it is thought, cannot be satisfactorily pursued until after the required course in European History has been completed. Besides the general course in the history of mediaeval and modern Europe, opportunity is presented for the more detailed study of English History, of the Renaissance, of the Reformation, and of European History since 1800.

A comprehensive course in American History is given during the first two terms of the Senior year. It is succeeded by a course consisting of practical exercises in American History, by which advanced students may be trained in original research and introduced to the higher departments and methods of historical study. The work in this course is carried on with great freedom. Those pursuing it meet as a class only occasionally, by far the greater part of their instruction being given to them individually, among the books in the library. To graduate students of history, besides the opportunity of following advanced undergraduate courses which they have not previously taken, lectures are offered on the principles of Historical Criticism and on the development of Modern European Historiography. A practical course in the dissection of some portion of English History (this year the constitutional history of the Commonwealth), illustrates the former of these courses of lectures, and trains the student in method. Training of another sort is afforded by a course of lectures dealing with topics in the History of the United States, the topics being so selected as to illustrate in various ways the general fields of our constitutional and diplomatic history.

The Historical Seminary, conducted by the Professor of History, and including the graduate students and some of the most advanced Seniors, is an organization designed to foster by

co-operation the practice of original research, to familiarize students with methods more advanced than those of the ordinary college class, and to incite them to interest and active participation in the higher branches of historical work. The Seminary of Mediaeval History, conducted by the Associate Professor of History, is designed to accomplish similar results with selected students from his classes.

IX, SOCIAL AND POLITICAL SCIENCE

The course of instruction in Social and Political Science continues through two years. All courses except Political Science 5 and 6 and Social Science 4, which are open only to advanced and graduate students, are elective for both Juniors and Seniors.

The courses in Social Science deal with the Principles of Sociology, with the Development of Primitive Civilization, and with Modern Social Problems. Here, as in Political Science, a continuous and systematic line of topics is presented, beginning with elementary principles and leading up to the discussion of present problems. These courses are followed by a course in Social Philosophy.

In Political Science, elective courses are offered in the study of the origin and development of the State, its conditions, forms, end, and functions, and in the comparative study of European Constitutions. Courses are also given in the study of International Law and International Relations, and in the study of the Constitutions and Politics of the United States. The aim of this instruction is to pass from the abstract idea of the State to the concrete embodiments of the idea, and thence to the study of the relations existing between these as shown in the study of International Law and International Relations. An advanced course in the Development of Political Theory and a course in Roman Law make possible a programme covering two years in Political Science.

A course in Elementary Law is arranged to provide such a preparation as will enable graduates of the University who thoroughly study this branch, to enter law schools with

advanced standing and shorten their law course by one year. The course also affords an invaluable opportunity for those who do not enter law schools to obtain a knowledge of the elements of law.

X, "POLITICAL ECONOMY

The work in Political Economy comprises an elementary course and three or more advanced courses, each of three hours a week. The elementary course extends throughout the year and is open to Juniors and Seniors. This course is based upon lectures supplemented by reading and essays on the part of the class. The first term is devoted principally to a discussion of the nature of economics and to the history of the development of economic life; the second is an analysis of that life as we find it among the more advanced nations of today; the third is a discussion of the strength and weakness of the existing economic organization, the more important proposals for essential alteration in that organization, and special questions of present interest.

Each of the advanced courses occupies one term. All are open to Seniors who have satisfactorily completed the elementary course and to such students as may have done an equivalent amount of work elsewhere. The course for the first term is regularly devoted to the history of economic thought, based, for the most part, on a careful study of the authors treated. The courses for the other two terms vary from year to year, treating of such subjects as money and banking, public finance, the history of economic life, the railway problem, the tariff question, theory and history of international commerce, the labor problem, the State as a factor in economic life, etc.

In addition to the above courses, advanced students of special ability are offered an opportunity to meet the instructor for special work based on seminary methods.

In all courses the subject is taught from the purely scientific point of view, though the effort is constantly made to show the bearing of economic principles on questions of economic life.

XI, GERMANIC LANGUAGES AND LITERATURES

The study of German may be pursued four years as undergraduate work, in recitations, three or more times a week, and may be continued by graduate students in advanced courses of one, two or three years' duration.

UNDERGRADUATE COURSES—The main undergraduate courses are those numbered from 1 to 9. They extend over a period of three years, in recitations three times a week. These courses are the centre of all the college work in the department. The aim is to lay a thorough foundation in the German language, and to give an introduction to the literature. In connection with these courses are offered parallel courses in which special honors may be won. The Honor Courses consist of large additional readings from a variety of authors, but mainly, in each case, from the author upon whose works the class is engaged. Frequent tests and examinations are made of the work. The courses numbered from 10 to 30 are regarded as auxiliary and collateral courses: a lecture course of three hours a week throughout the year upon the German Literature, a course of one hour in German Conversation, three parallel courses of one hour each in Scientific German, and courses in Swedish, Danish, Norwegian and Dutch.

GRADUATE COURSES—These include elementary and advanced courses in Middle High German, Old High German, Old Saxon, Old Norse, Gothic, Germanic Philology and Germanic Mythology. These courses are designed primarily for students enrolled for advanced degrees. The aim in them is to lay a foundation in the early literature, languages, mythology, history and institutions of the German nations, and to make a comparative study of the languages. A Germanic Seminary is connected with these courses, in which graduate students do advanced work under the direct supervision of the officers.

1. Courses in German Literature—The chief purpose of Course 16 is to "orient" the student briefly in the whole field of German literature and to prepare him for a more critical and detailed study of the New High German period of bloom.

Lectures are given upon the history, institutions, and character of the early Germans. The earliest pieces of literature are analyzed; the era of Karl the Great is carefully studied; and the great epics with the lyric poetry of the Swabian era are examined in detail, special attention being given to the *Nibelungenlied* and the *Meistersänger*. The Renaissance, the Reformation, and the Imitative School of the Seventeenth Century are discussed. Special topics are assigned to each member of the class for essays, and a weekly report must be submitted by each student upon collateral reading.

The work in Course 17 involves much more detail than the preceding. The modern period of literary bloom is taken up, the life and works of the most prominent writers are carefully examined, and extensive readings are required from each author studied, as found in Müller's *German Classics*. Many selections are read aloud in the class. The phases of literary movement known as *Die Aufklärung*, *Der Göttinger Dichterbund* and *Die Sturm-und Drangperiode*, and the writers connected with each, are studied. Students are required critically to examine assigned topics and submit essays and reports.

In Course 18 attention is given almost wholly to the life and works of Goethe and Schiller. Extensive readings are required from their works and each member of the class must read one dissertation before the class.

2. Conversation and Composition. These courses may be elected by any who have studied German not less than one year, but are eligible only in connection with one of the regular courses. The purpose is to acquire some facility in speaking and writing the language.

3. Scientific German. These courses are open to those who have studied German not less than one year. Students who pursue the regular Courses 4 to 9 may elect one or more of these courses, but students who do not pursue the regular courses are required to take these three courses if any at all.

The object is to prepare the student to read modern scientific German, so that those whose main work lies in natural science

may be able to use with profit the standard works of reference, scientific journals and monographs constantly published in the German language. These readings are so conducted as to give as extended a view as possible of scientific terminology.

4. Swedish, and Dano-Norwegian. The object of these courses is to teach enough of the language in either case to enable pupils to read with ease the masterpieces of the Scandinavian literature, which is justly gaining the attention of all those interested in general literature. The Dano-Norwegian literature especially has a literary individuality strictly its own and possesses many works of great intrinsic value.

5. Dutch. Dutch is at present offered only for those who have had at least one year of German. Acquaintance with the best literature is made at the very outset, and a comparative study of English, German and Dutch forms speedily insures to the student a copious vocabulary. This work is philological and literary, very important for the specialist in German or English. If supplemented later by a study of the spoken language, it assumes great practical value. The general student must see the advantage of knowing Dutch, so intimately were the people of Holland connected with early American history and civilization.

6. Middle High German. In the first year the student is introduced to the rich literature of the Swabian era. The larger part of the *Nibelungenlied* is read in class and lectures are given upon the Epic. Subsequently the greater part of Walther von der Vogelweide is read as well as selections from the other Minnesingers, while in the most advanced course the Court Epics are the centre of study. All courses in Middle High German are mainly of a literary character.

7. Old High German. The courses cover one year and, like those in Old Saxon, Gothic and Old Norse, enable students to broaden their foundation in Germanic Philology. Attention is directed almost entirely to the linguistic side of the study.

8. **Old Saxon.** These courses are devoted to the study of the Old Low German or Old Saxon, and of its relations to the Old High German on the one hand and to the Old English on the other.

9. **Gothic.** The forms and syntax of the *Ulfilas* are studied with much care, as offering the best foundation for a comparative study of the Germanic dialects in their relation to the other Indo-Germanic languages.

10. **Old Norse.** The first year's courses in Old Norse are devoted to the study of the language and of those mythological works which are of first importance and general interest. The second year's courses are devoted to the prose sagas.

11. **Germanic Philology.** These courses are comparative ; in one direction with the Sanskrit, Greek and Latin of the Indo-Germanic family, and in the other with the Germanic dialects in their old, middle and new literary forms. The authorities here are Brugmann's *Grundriss der vergleichenden Grammatik der indogermanischen Sprachen*, Paul's *Grundriss der germanischen Philologie*, Noreen's *Abriss der urgermanischen Lautlehre* and *Altnordische Grammatik*, Wilmann's *Deutsche Grammatik*, Erdmann's *Grundzüge der deutschen Syntax*, and Sievers's *Altgermanische Metrik*.

12. **German Mythology.** These courses consist of an examination into the number, character and credibility of our sources for a knowledge of Germanic Mythology. The modern critical historical method is applied to the study of these sources and by the aid of comparative mythology, the origin of some of the most important myths that have impressed themselves upon Germanic Literature is traced. Meyer's *Lehrbuch der germanischen Mythologie* is used as a manual for reference.

The Germanic Seminary

Many of the courses detailed above are of the character of Seminary Courses. The work in them is done under the immediate supervision of the instructors, at the rooms of the

Germanic Institute, where all the members, officers and students meet once each month for the presentation of original papers, journal reports, and for discussion. The purpose of the Seminary is to concentrate and render effective all the advanced work of the department, to train the student in the methods of literary and philological research by encouraging original investigations, and to impart that enthusiasm which is gained by association.

The Germanic Institute and Library

Two commodious rooms, Nos. 6 and 7, in Sayles Memorial Hall, have been set apart and furnished for the use of the Germanic Institute. In these rooms is the "Conant German Seminary Library," a special collection for the exclusive use of the Germanic Department, collected by Professor Williams in Germany, in the name of the principal donor, Hon. Hezekiah Conant. Many other generous contributors have added to the fund, until now the library contains over six thousand selected volumes, including editions of all the principal writers in German literature; a large collection in Philology; all the leading literary and philological *Zeitschriften*; many works upon German History, and upon the History of German Literature, Law, Art, Palaeography and Geography. The library is especially rich in works of the Middle High German Period, and in Goethe and Schiller literature. It also abounds in works of art which illustrate the subjects taught, bronzes, copper and steel plate engravings and illustrated books. During the year a Scandinavian alcove will be added and the other sections still further enriched. All the officers of the Department have their private studies in the Institute and are thus brought into daily contact with their advanced students. The rooms are open from 8 A. M. until 10 P. M., and in term time one or more of the officers may be found there during these hours.

XII, ROMANCE LANGUAGES AND LITERATURES

FRENCH

Candidates for degrees are at their entrance into College examined in French Grammar and in reading easy French prose at sight. For those who offer German instead of French, a special course is arranged during the Sophomore year, though all are earnestly advised to do their first year's work in French before coming to College. The work of the Freshman year, which is required, is devoted to the study of the language. The object of this course is to enable the student to read ordinary French with but occasional reference to grammar or dictionary. Two hours a week throughout the year are devoted to rapid translation after preparation, and to translation, at sight, of contemporary novels and plays. One hour a week the instructor reads in French to the class, translating only when necessary, with the object of familiarizing pupils with the spoken language and of weaning them from dependence upon English as an intermediary between the text and the thought. Great stress is laid upon this part of the work. Owing to the size of the classes nothing can be here attempted in the way of writing or speaking. Provision for this want is made later in a special course. After the Freshman year all courses are elective, and, with the instructor's approval, may be taken by any.

Course 4, 5, 6 is devoted to the literary study of the masterpieces of the Classical and Romantic schools, special attention being given to Molière and Hugo. Owing to the size of the class, the instructor presents the matter to the class in the original, with the necessary linguistic and literary comments, leaving the proficiency of students to be tested by examinations based upon the class-room and outside reading.

Course 33, 34, 35 consists of lectures on the history of the literatures of France, Italy and Spain. The class take notes and are also provided with a text-book in French. These courses are distinctly literary and artistic in their object, and

are intended, in connection with Italian 4, 5, 6, to introduce undergraduates to the rich field of Southern European literature in its relation to the literature of Germany and England.

Graduate Courses

All courses other than the above are intended for Seniors or graduate students desiring special attainments in French. A one-hour course is offered in French grammar, including practice in writing French, in connection with which some effort is made toward speaking French. The literature of the eighteenth and of the sixteenth century are read with reference, respectively, to the political and the artistic movements of the time, some attention being paid to the development of diction and of spelling. The course in Old French Literature serves also as an introduction to the study of Romance Philology. Special programmes of study and investigation are arranged for candidates for advanced degrees.

ITALIAN AND SPANISH

In the introductory Italian and Spanish courses the general aim is similar to that of the Freshman course in French, namely, the acquisition of ability to read modern authors easily. The classic courses are literary, and necessarily devoted to the study of the great masterpieces of the two literatures.

In Italian 4, 5, 6, the whole of the *Divina Commedia* is presented to the class, the more important cantos being studied in the original. It is hoped that this course will induce a large number of students to take the previous course in Italian.

The Romance Department Room

A special room, Sayles 4, has been set aside for the use of advanced students in the Romance Department. A choice special library has been begun, and here all graduate courses are conducted. The professor or one of the instructors is constantly at hand to give informal assistance and advice to those admitted to these privileges. A large number of books have already been collected, and it is hoped that gifts from friends of the University, not only in the way of books but of

engravings and works of art illustrating the literatures studied will soon increase the value as well as the attractions of this important feature of the department's work.

XIII, PURE MATHEMATICS

Mathematics is prescribed during the Freshman year for all students entering College who are or intend to become candidates for degrees, and during the Sophomore and Junior years for candidates for the degrees of Civil and Mechanical Engineer. Except as thus specified, Mathematics is an elective study. The required courses are essential to a thorough knowledge of the elementary principles of mathematical science, which prepare the student for advanced mathematical work. They serve also to discipline the mind in careful analysis and strict logical methods of thought, and to develop the reasoning powers. They likewise cultivate the invaluable faculty of exact expression.

In the higher elective classes in the Pure Mathematics the aim is also two-fold : first, mental discipline for those students who do not intend to pursue the subject further ; and second, a thorough mathematical foundation for those who desire to make mathematical studies a specialty.

XIV, DRAWING

Instruction in Mechanical Drawing is based upon Pure Mathematics. The aim is not simply to teach men how to draw, but how to think and investigate for themselves. Rules and formulas employed in problem construction are used only after they have been thoroughly discussed and satisfactorily proved. Both the theory and the practice of the subject are taught, and an effort is made to bring before the students those principles which will be most needed in handling the complicated problems of the mechanical world. All work in the department is regulated by a schedule, which defines the nature and amount of work to be accomplished each week. Drawings which fall below the standard are rejected, and reconstructions

required. In this way tendencies toward carelessness are eliminated, and a good quantity and quality of work is secured.

In Freehand Drawing students are required to make sketches of models as they appear from individual points of view. The aim is to render the eye quick and accurate in observation and the hand skilful in representation. The course in Constructive Geometry is a direct application of Pure Mathematics. Problems are assigned without any directions in regard to their solution, and students are required to investigate and report.

In Machine Drawing, machines are taken apart and fully explained. The various portions are then sketched, named, detailed, and assembled. The assembly drawing, which is a combination of the details, is constructed from the details, and not from the machine itself.

A library for the use of students interested in Mechanical Engineering has been begun in the drawing room. Through the generosity of friends a number of valuable works have been secured and funds are in hand for the purchase of others.

The instruction in practical Architecture bears the closest relation to that given in the department of Drawing, and happily supplements this at almost every point.

XV, CIVIL ENGINEERING

The course leading to the degree of Civil Engineer occupies four years; and is designed to give students a thorough preparation both in theory and in practice for the profession of Civil Engineering.

Besides the preparatory work of the Freshman and Sophomore years including the general literary and scientific subjects deemed indispensable in any technical course, special stress is placed upon the following, which are of a purely technical nature :

Railroad Engineering. During the First Term the actual preliminary survey and location for a railroad line from two to five miles long is made somewhere near the city of Providence, and the data thus obtained are mapped in the conventional

manner. During the Second and Third Terms special reference is made to the materials of construction, the general theory of railroad location and construction, and the line run during the First Term is discussed, in relation to the principles thus discovered.

Structures. As a preliminary to the general subject the student is obliged to make detail drawings of an existing bridge and thus become familiar with the relation which the various members bear to each other. A thorough course in stresses is then given, the problems being solved both graphically and analytically. Finally the design of one or more trusses conforming to recent practice is required. Throughout the course, typical rather than exceptional forms of roofs and bridges are discussed.

Masonry. Besides a general treatment of the subject the course comprises the design of right and oblique arches and retaining walls with reference to particular locations. Plaster models are made of many of the stones forming the arches as designed, and the details of stereotomy thus shown.

Hydraulics. The course in Hydraulics supplements the courses in Mechanics 7 and 8, which give the theoretical treatment of the subject. A prominent feature of the course will be "seminary work" in various branches of Hydraulic Engineering, an assigned subject being investigated by the student and a short thesis thereon presented for discussion.

Sanitary Engineering. The text-book assigned is intended merely as a guide, seminary work and lectures being the main features of the course. The city of Providence offers many sanitary problems and many specimens of difficult constructions. Numerous visits to such are required and, where possible, the details of work are shown and explained.

Laboratory Investigations. So soon as practicable, laboratory investigations in strength of materials, use and adjustment of instruments, testing hydraulic motors, etc., will be a prominent feature of the Junior and Senior instruction.

Thesis. The subject for the graduation thesis must receive the approval of the Instructor in charge of the department. It should be technical in character and of a nature to require experimental investigation and original research.

XVI, MECHANICAL ENGINEERING

The course leading to the *dégré* of Mechanical Engineer consists entirely of prescribed studies and occupies four years. Any part of the course may be separately elected by students who have received the required preparation.

Subjects of special importance in the professional work of the course may be summarized as follows :

Drawing. In the courses in Elementary, Mechanical, and Freehand Drawing, Descriptive Geometry, and Shades, Shadows and Perspective, the student is given a good foundation for that class of subjects which consist partially or wholly of Drawing. Among such subjects taken up in this course are Machine Drawing, Gearing, and Machine Design. In Machine Drawing the student makes Freehand sketches from machines, and constructs detail and assembly drawings from his sketches. In Gearing, a thorough discussion of the principles of toothed gears is accompanied by accurate construction of practical cases by means of drawing. In Machine Design the student solves, by means of drawing and calculation, a progressive series of practical problems; these problems involving a knowledge of the ordinary mechanisms which are discussed in the course in Kinematics, and of the strength of materials and structures treated in Mechanics.

Mechanics. The following are among the subjects considered in this study. The laws governing Motion and Force; Statics of rigid bodies; Theory of the Centre of Gravity in surfaces and solids; Equilibrium and Dynamical Stability of bodies rigidly fastened; Resistance of Friction; Elasticity and Strength of Flexure, Shear and Tension; the use of the graphical process in determining strains on girders, trusses and arch ribs; the structures of masonry, including Foundations, Retaining Walls

and Arches; Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs, and the flow of water in rivers, canals and conduit pipes, and water as a motor.

Materials of Engineering. A knowledge of the origin, nature and method of preparation of the common metals and various materials used in construction, is of the utmost importance to the mechanical engineer. While the experimental determination of the strength, elasticity and other useful qualities of these metals and materials properly form part of an Engineering Laboratory course, their origin, nature, and preparation are subjects for class-room discussion, and are treated as such. The part relating to the reduction of the various metals from their ores is taken up in detail, and so far as possible illustrated with the lantern and slides. Special attention is given to the methods of manufacturing iron and steel.

Laboratory Methods. This is a short course, whose object is to explain the equipment of the Engineering Laboratory, methods of carrying on various tests, methods of calibration, and the details of laboratory standards.

Engineering Laboratory. The work of this course is extremely important, consisting of practical experiments with the apparatus and materials of engineering. It comprises efficiency tests of both steam and gas engines, boilers, steam pumps and various forms of motors; calibration of the various instruments used in engineering practice; belt and lubricant tests; comparison of different methods of power transmission; also experimental determinations of the strength of the various materials of engineering.

Thermodynamics, Steam Engines and Boilers. In these courses are discussed the fundamental principles of Thermodynamics as applied to various heat engines, especially the steam engines; the distinctive mechanisms of steam engines, and the types and modes of construction of steam engines and boilers are investigated. These courses are followed by a

course in Steam Engineering, in which the principles of Thermodynamics, and the results of experimental investigations are applied to the solution of advanced problems in designing steam engines and boilers.

Workshop. This course is intended to give the student not only a knowledge of the various tools and machines used in mechanical processes, but also to make him familiar with the methods of accurate construction. The work usually begins with the ordinary operations of the carpenter and joiner. In pattern-making as much time as possible is given to details such as the core-box, proper allowance for shrinkage, finishing patterns with special regard to ease in moulding, etc. The different mechanical processes and machine tools used in metal working, and the operations for the performance of which the machines were particularly designed, are taken up later. It is intended by means of a series of progressive exercises to develop a maximum amount of manipulative and constructive skill in the handling and making of various tools and parts of machines. Where exceptional ability is shown, the student will be encouraged in the construction of a complete machine, of value either in the market or in the general work of the University.

Thesis. A graduation thesis is required from all students taking the degree of Mechanical Engineer. It may be one exhibiting research, or an account of some original investigation carried on by the student. In either case it must exhibit satisfactory ability in the student as an engineer, gained during his course.

A graduating piece is demanded, both in the drawing-room and in the work-shop, which shall show proficiency in those departments.

XVII, CHEMISTRY

The Department of Chemistry is intended to afford instruction in the general principles of Chemistry, in Analytical Chemistry, and in the practical applications of these subjects. Opportunity is afforded for studies in Metallurgy, Medical

Chemistry, Agricultural Chemistry, and in the chemistry involved in the bleaching and dyeing of textile fabrics.

The courses are not confined to undergraduates, other persons, if prepared to pursue the study to advantage, being admitted; but a knowledge of the general principles of Chemistry is absolutely necessary to profitable work in any of the more advanced courses.

The course for the first year covers three grand divisions: the study of the non-metals, of the metals, and of the carbon compounds. The course for the second year includes qualitative analysis and elementary quantitative analysis. Work in the other branches mentioned may follow that specified for the first two years. In all cases students perform laboratory work and attend lectures. The lectures in this department deal with the experiments of the students, and also with chemical philosophy, stoichiometry, and new applications of chemical substances in recent inventions.

The Courses 1, 2, and 3, called Descriptive Chemistry, include also Experimental and Theoretical Chemistry. Instruction is given by textbooks, by lectures, and by individual laboratory work on the part of the student. The lectures are illustrated by experiments and colored charts and by blackboard exercises.

Qualitative Analysis includes a study of the properties of the metallic elements together with their separation from certain of their compounds, also of the chief non-metals and the acids produced by them.

Elementary Quantitative Analysis includes a study of quantitative precipitations and separations of the most important elements and compounds, and a somewhat thorough review of the principles upon which quantitative apparatus is constructed, including the theory of the chemical balance, the merits of the different systems of weights and measures, the use of burettes, graduated flasks, etc.

Course 9, Advanced Quantitative Analysis, includes the assaying of metallic ores, the analysis of agricultural materials including commercial fertilizers, the testing of chemicals used in textile establishments, etc. Students are also required to prepare and read before the class essays on a series of assigned subjects relating to chemical manufactures.

Courses 10, 11, 22, Organic Chemistry, include an extended series of exercises in the preparation and testing of organic compounds.

These compounds are so selected as fairly to represent the different branches of this important department.

Courses 15, 16, Medical Chemistry, include a thorough study of certain animal products, such as normal urine, morbid urine, various calculi, etc.

Course 20 includes the scouring and dyeing of wool, the cleansing of wool in the fleece, the removal of burs, the preparation and use of the necessary mordants, dye-stuffs, etc.

The Chemical Laboratory is open to students from 8.30 A. M. to 3.30 P. M. on every week day except Saturday.

For laboratory fees, see Index under "Expenses."

XVIII, PHYSICS

All the courses of instruction offered by the Department of Physics are conducted in Wilson Hall. This building was specially designed and constructed for a physical laboratory. The general lecture room is large and well ventilated, and contains all the necessary conveniences for the experimental demonstration of lectures. Seven laboratory rooms are provided for the experimental study of Physics, each room being adapted to the investigation of a particular branch of the subject, or available for the arrangement of classes according to proficiency. Brick piers are provided for the support of instruments requiring great steadiness, and the magnetic rooms are as free as possible from iron and other disturbing influences.

The cabinets are well supplied with apparatus, both experimental and demonstrative, and frequent additions are made as necessity requires.

I, *Elementary Courses*. General Course 1, 2, 4, is designed for those who have had no previous training in Physics, and presupposes only a good knowledge of the elementary mathematics such as that offered in the Freshman year (see Mathematics 1, 2, 3). Instruction is given by lectures, amply illustrated by experiments. The progress of the student is tested by frequent written exercises and by his accuracy and originality in the solution of the problems assigned from time

to time. The entire course extending through three terms is essentially a unit and those who elect it are expected to follow it to the end.

The General Laboratory Course 5, 9, 10, is arranged to follow the work in Course 1, 2, 4, as closely as possible, and may be undertaken by the students in connection with that course or after its completion. The work consists entirely of quantitative experiments performed by the student and every effort is made to give him a thorough familiarity with physical apparatus and the scientific methods of exact measurement. Every student is required to present a written report of each experiment performed, and his standing is based on the neatness and accuracy of these reports.

II, *Electrical Engineering Courses*. These courses are designed for those who wish to obtain a practical knowledge of Electricity. Course 3 is intended to develop the elementary mathematical principles of Electricity and Magnetism. In Course 11 these principles are applied to the design of dynamos and motors and the general theory of electrical testing is taken up. In both courses the progress of the class is tested by numerous examples and frequent written exercises. Course 15 consists of actual tests by the student of dynamos, motors, and measuring instruments and his standing is based on the neatness and accuracy of his written reports of the work he has done.

III, *Advanced Courses*. These courses are intended to develop the elementary mathematical theory of the subjects treated, and to lay a broad foundation for the future study of theoretical Physics. Students electing advanced work are expected to have a good command of Mathematics and to have mastered the general principles of Physical Science as set forth in the elementary courses. In course 12, Preston's "Theory of Light" is used as a text-book and the student is encouraged to solve as many as possible of the problems suggested by the author and assist in the experimental verification of the results obtained. Course 13 is intended to present in a mathe-

mathematical form the dynamical problems that lie at the basis of all theoretical Physics. Numerous original problems are assigned from time to time and occasional written exercises are held to test the progress of the class. The purpose of Course 14 is to develop the fundamental problems and theories of Thermodynamics and to apply these to the theory of heat engines and the dynamical theory of gases. In Course 16 the general equations of motion of a perfect fluid are developed and applied to the solution of simple problems. The advanced laboratory Courses 17, 18, 19, are intended for those who are already familiar with the use of physical apparatus and are capable of carrying on investigations more or less independently. Special problems are assigned to each student and he is referred to original sources for methods of solution. Great care is taken to develop accuracy of observation, and neatness and clearness in the written reports of experiments.

IV, *Graduate Courses.* The Physical Laboratory is open daily, except Saturdays, from 9 A. M. to 4 P. M. for those whose previous training warrants their undertaking original investigation. When necessary, special rooms are allotted for such work, and the instructors in charge are glad to supply every facility consistent with the regular work of the Laboratory.

For special expenses in the Physical Laboratory see Index, under "Expenses."

XIX, ASTRONOMY

The courses of study offered in Astronomy are eight, two lecture courses in General Astronomy, five laboratory courses in Practical Astronomy, and one in Scientific Method. The last named will for the present be given every other year, the third term, alternating with a course in General Meteorology. The lecture courses are designed to acquaint the student with the fundamental conceptions of the science, the methods of its professional study, and the present state of our knowledge of the heavenly bodies. A general treatise on Astronomy is made the basis of these courses and is supplemented by lectures

and by abstracts upon assigned topics prepared by members of the class. The laboratory courses comprise a technical study of the theory of astronomical instruments and practice in their use. The sextant, transit, zenith, telescope, and equatorial are taken up in turn, and the astronomical problems of Navigation and Geodesy solved by actual observation and calculation.

The Ladd Astronomical Observatory

The Observatory is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, spectroscope, and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in Astronomy and for practical use in the applied courses open to undergraduates and graduates.

The Observatory furnishes constant time signals to the Rhode Island Electric Protective Company, by which they are distributed to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity and precipitation are made throughout the year. Special observations occur as opportunity offers.

XX, ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

General Zoölogy is taught to the Juniors and Seniors by lectures and demonstrations. It is the aim to adapt the lectures to the needs of the general student. It is taken for granted that no liberally educated person should be without a general knowledge of the principles of Zoölogy, the laws of Animal Morphology, the development of the animal kingdom from monad to man, or the relations of animals to the world about them and to man, or including the subjects of heredity, hybridity, the variation of species, and the views now held by different schools of evolutionists.

Specimens of the following rarer types have lately been procured for use in this department: African lung-fish (*Protopterus*), *Polypterus*, *Siren*, *Amphiuma*, *Caecilia*, and a skin and skeleton of the Australian spiny ant-eater (*Echidna*); also skeletons and other osteological preparations of fishes, batrachians, lizards, birds, and mammals, and valuable embryological models for class illustration.

GEOLOGY

Instruction in Geology is given during the first and second terms by means of lectures, laboratory work, and field excursions, with especial reference to the geology, structural and economic, of Rhode Island. The lectures are illustrated by diagrams, models in wood and plaster, lantern views, illustrating volcanoes, earthquakes, and other geological phenomena, and fossils. During 1885, the palaeontological collection was re-arranged and labelled for the use of students. The fossil flora of Rhode Island is fully represented, and important animal remains of the Rhode Island carboniferous rocks were added in 1888 and 1889. Since then other material has been supplied.

The instruction includes a brief course of laboratory work in elementary Mineralogy and Lithology. Many duplicate crystals have been purchased, and the students are allowed to use them freely in their work. A special collection of Rhode Island minerals and rocks has been formed, and additional European educational specimens secured.

Through the kindness of Commander Bartlett, U. S. N., two large models from the office of the United States Hydrographic Bureau, Washington, one of the Atlantic ocean-bottom and one of the Carribean sea-bottom, have been deposited in the lecture-room. Additional models in plaster and *papier-maché* were added in 1892. Since then many lantern slides illustrating the formation of coral reefs and volcanism have been procured.

ANTHROPOLOGY

Instruction in Anthropology is offered as a Senior elective in the third term, consisting of a course of lectures on the physical or natural history of Man. It embraces the principles of Ethnology, Ethnography, and Prehistoric Archaeology. The course treats of the following topics :

1. Man as related to other Primates, including the differential characters of Man.
2. The Origin of Man.
3. The Human Races.
4. The Prehistoric Races and the Antiquity of Man.
5. Language and Race; Writing.
6. The Arts of Life; Amusements.
7. Primitive Culture, including Folk-lore, Myths, Primitive religious Cults, and child study.
8. Primitive Society.

The course is illustrated by a series of relics in bone, stone, and bronze of the pre-historic races of Europe, by American stone and bone implements and collections from New England shell heaps, and by lantern views illustrating the fossil races of man in the Old World. Essays and collateral reading are required from the class.

This course, with those on Zoölogy and Geology, is designed to present a connected outline of the history of creation, including the evolution of the North American continent, and of the life upon it, as well as the origin of man, and of primitive culture.

XXI, COMPARATIVE ANATOMY

The general system of study in the department of Comparative Anatomy extends over three years and is specially planned for those who intend to enter the medical schools, though there are certain less technical courses, which are regularly elected by students who wish to gain a general knowledge of biological phenomena as a foundation for, or as an extension of, the courses in zoölogy, physiology, botany, ethnology, theology, psychology and social science.

Introductory Biology (Comp. Anat. 12,6), during the first and second terms of the Sophomore year, will consider the general characters, morphological and physiological, of organisms. It will aim at the broad and fundamental principles which underlie all living things, both animal and vegetable. This course is adapted to the student who wishes to make a knowledge of Biology a factor in his intellectual life, and who seeks training in scientific methods. The types studied will be few and so selected as to elucidate the meaning of general terms such as protoplasm, nutrition, growth, reproduction, metabolism, cell-genesis, differentiation, evolution, heredity, ontogeny, phylogeny, etc.: and further, the relation of the cells to the organism as a whole, the reciprocal relations of organisms, the morphology and physiology of fertilization. The simpler methods of biological work, including microscopical technique, will be taught. The forms studied include yeast, *Hæmatococcus*, *Ambœa*, *Spirogyra*, *Bacteria*, *Vorticella*, *Hydra*, Bracken fern and Earthworm.

Practical Vertebrate Dissection (Comp. Anat. 1) is offered as an elective during the third term of the Sophomore year. Six hours are spent each week in the dissection of the cat and methods of anatomical preparation and demonstration are discussed. The popularity of this course has necessitated the enlargement of the laboratory and a new room 36x60 will be fully equipped at an early date. It is eminently desirable that students should become thoroughly acquainted with the tissues of the vertebrate body before electing the Junior courses in Physiology and Zoölogy. A practical dissection of the nervous system and special sense-organs will be of direct aid to the subsequent study of Psychology.

During the first term of the Junior year one hour each week is devoted to the reading of a brief German text-book of Anatomy. Though the work done in this class will not be received as the equivalent of work done in the department of German and indeed must be considered as additional to all regular work, and hence not credited to the student, it

is nevertheless expected that many will avail themselves for this opportunity of preparing themselves for future biological reading.

Experimental Biology (Comp. Anat. 7). During the second term of the Junior year there will be offered a laboratory course in which the characteristics of protoplasm, the intimate phenomena of digestion and assimilation, the physiology of the muscles and nerves, the processes of secretion, excretion and circulation, and the effects of artificial stimulation upon heart-beat, respiration, etc., will be experimentally treated.

The location of the University upon the shores of Narragansett Bay offers exceptional opportunities for Invertebrate Dissection (Comp. Anat. 2). A thorough course of study on the anatomy of the lower and intermediate animal forms has been established. Living marine animals are brought to the laboratory, and starfish, sea-anemones, mollusks, marine worms and crustaceans are dissected and as thoroughly studied as in many of the marine laboratories. During the term a limited number of collecting excursions are made to the more promising localities along the shore.

Three courses are planned for members of the Senior class and these may be supplemented by extra work as the student may desire. The first two courses treat of the Comparative Anatomy of Vertebrates (Comp. Anat. 3 and 4) and extend through the fall and winter terms. The anatomical collections of the University are here made of special use, not only for demonstration but actually for dissection. The several systems of the Vertebrates—bony, nervous, digestive, circulatory, reproductive, excretory, etc., are comparatively studied. Wiedersheims well-known text-book is used, though the greater amount of time is spent in laboratory work.

Comparative Embryology and Histology (Comp. Anat. 8). During the third term the series of changes of the animal from the egg to the adult condition will be traced by comparative methods, on both living and preserved material. The types studied are the starfish, frog, chick, and mammal. In addition

to following the development of the general architectural plan of the animal body, attention is given to the mode of formation and to the mature structure of the principal component tissues.

Special courses for graduate students are arranged in Bacteriology, Histology, Anatomy, Cellular Biology and Embryology.

The Biological Club, comprised of the instructors and students, meets at frequent intervals for the examination of current biological literature, and for the discussion of biological questions. The members also engage in field work, to augment the University's collection of Rhode Island fauna.

Rhode Island Hall is now almost exclusively given up to biological science. The large Anatomical Laboratory, located on the ground-floor, is now practically finished. The South lecture room is devoted to zoölogy and geology, while physiology is located in the North room. The room heretofore used as a laboratory for general anatomy will be devoted to advanced work and to certain smaller classes. The laboratories are well equipped with microscopes, microtomes, reagents, embryological and bacteriological incubators, etc., and a fine series of wax models has been recently purchased.

Marine Biological Laboratory. The University controls two of the tables in the Marine Biological Laboratory at Wood's Holl, Mass. Students who creditably pursue certain courses in Zoölogy or Comparative Anatomy may receive appointment to these tables, where during the summer months, rare opportunities are offered for biological investigation.

XXII, PHYSIOLOGY

During the First Term three lectures are given to the Freshman Class upon matters relating to personal hygiene. In them attention is called to the important laws of health, and practical advice given in regard to exercise, hours for study and sleep, the care of the digestive functions and the

eyesight, and upon other matters in which the habits of students are so often faulty.

In the Junior year elementary instruction is given in Anatomy and Physiology, the subjects being considered from a scientific rather than from a practical point of view. The object of these lectures is to lay the foundation for a study of the morphology of the lower animals, those organs and functions which are of particular interest in connection with this receiving the most attention.

This course together with the various courses in Chemistry and Biology is especially adapted to students who intend, after graduation, to pursue the study of medicine.

XXIII, BOTANY

Instruction in Botany is given by means of lectures and laboratory practice, collateral reading and essays being also required. The course occupies three years.

The first year is devoted to General Morphology and to practice in analyzing and describing plants. A few difficult families, such as *Compositae*, *Cruciferae*, and *Umbelliferae* and Ferns are especially treated.

In the Histological course the microscopic structure of the higher plants is studied in connection with lectures, and instruction is given in microscopic technique. Only students of marked attainments in Botany are permitted to take this course.

In the Cryptogamic course the lower orders of plants are studied by means of certain types. Lectures accompany the laboratory work.

Original work and observation are encouraged. Students are required to make illustrative drawings from the objects studied. It is designed in all cases to foster independent reasoning and thoughtful comparison.

These consist mainly of the collections of various botanists that have from time to time been donated or bequeathed to the University. Those of Col. Olney (particularly rich in the

genus *Carex*) Mr. Bennett, Prof. Bailey, Messrs. Stout, (mostly ferns) and Brownell are the most prominent. In addition to these many specimens have been obtained by exchange, purchase and smaller donations. The collections of Olney, Bailey, and Stout are nearly all mounted, the remainder (more than one-half) are mainly unmounted.

Collectively, they are roughly estimated to contain about 40,000 sheets, representing specimens from more than 60,000 localities. As the price of good botanical specimens, unmounted, range from seven to ten cents each, the commercial value of these may be approximately estimated, although intrinsically, they are invaluable, and include many types or duplicates of the same. The arrangement of orders and genera of the flowering plants is according to Bentham and Hooker's "Genera Plantarum." That of the ferns according to Hooker's "Synopsis Filicum."

The herbarium furnishes the means by which allied species and genera, maturing at different seasons and in widely separated countries, are critically studied, side by side, and their affinities or differences duly observed, recorded, and published to the world. It is also the invaluable reference for the satisfactory determination of closely allied and varying species of many difficult genera which are, at times, almost impossible to separate by the best of printed descriptions.

Under proper restriction all the botanical exhibits are made accessible to the public and to students.

For the slight special fees connected with botanical study, see Index, under "Expenses."

XXIV, MILITARY SCIENCE AND TACTICS

Instruction in these branches is given by an officer of the United States Army, regularly detailed for this purpose. For three hours per week during the Fall and Spring Terms, and one hour per week during the Winter Term, military drill, accompanied by the appropriate theoretical explanations, is required of all Freshmen and Sophomores, and of all special

students of the first and second years, unless they are excused for physical disability or other sufficient cause. Each of these students is required to provide himself with the University uniform—blouse, trousers, cap and gloves. Neat and very serviceable uniforms are furnished through the University, at a cost not exceeding \$13.50 apiece. All necessary arms, ammunition and equipments are provided by the United States Government.

The infantry instruction embraces the school of the soldier, of the company, and of the battalion, besides drill in ceremonies and in small-arm gallery and target practice.

The artillery instruction is limited to the manual of the piece, mechanical manœuvres and aiming drill.

Officers are selected and appointed irrespective of class, according to proficiency and particular fitness:

Artillery detachments are selected by the commandant from the students most accomplished in infantry drill.

Target practice is held under the immediate supervision of the commandant, and every precaution taken to guard against accident.

On the graduation of each class, the names of such students as have shown special aptitude for military service are reported both to the Adjutant-General of the United States Army and the Adjutant-General of the State of Rhode Island. The names of the three students most distinguished in the studies and work of this department are, upon graduation, inserted in the *United States Army Register* and published in general orders from the headquarters of the army.

GENERAL INFORMATION

The University Extension

PROFESSOR WILFRED H. MUNRO, A. M., DIRECTOR

The purposes of the Extension is to afford the benefits of University teaching to those who cannot attend a University. Lecture Courses are given upon any subject for which there is a sufficient popular demand, in any place easily accessible from Brown University.

The aim of the instructor is to make his course of ten weekly lectures cover about the same ground which a college class would go over in ten weeks. The teaching scheme comprises Lectures, Class-Work, Essays, Reports, etc. An examination, voluntary, is held at the close of each course, and certificates are awarded to those who pass it.

The University charge for a course of lectures is one hundred dollars (\$100).

The Centre is required to pay the traveling and hotel expenses of the lecturer.

Experience has shown that the best work can be done in small classes, of from thirty to fifty persons, and that an attempt to popularize a course is unwise. The end and object of the Extension is not to amuse but to teach.

It is recommended that each Centre charge a fee of \$3 per person for each course. This will necessitate a guaranteed attendance of thirty-five people. Where several courses are carried on by the same Centre, an average attendance of thirty-five should be secured.

The following lecturers offer Courses for the current academic year: Professor Bailey, Botany; Dr. Brink, The Shaksperian Drama; Professor Bronson, The Novel, Shak-

spere, Wordsworth, Shelley, and Browning; Professor Bumpus, Zoölogy; Professor Chapin, Physiology; Professor Crowell, German Language and Literature; Professor Delabarre, Psychology; Professor Field, Biology; Professor Gardner, Political Economy and Banking; D. W. Hoyt, A. M., Elementary Physics; Professor Langdon, Shakspeare; Professor Jewett, Bible Lands; A. B. Johnson, A. M., French Language and Literature; H. L. Koopman, A. M., Libraries, Books and Reading; A. G. Langley, A. M., The History of Music; Professor Manatt, Greek History and Literature; Professor Manly, English Literature; Professor Munro, Mediaeval and Modern History, The Period of the Reformation; Dr. Newhall, Homer in English; W. J. V. Osterhout, A. M., Botany; Professor Poland, Classical Archaeology; Professor Seth, The History of Philosophy; Dean Snow, English Literature; Dr. Samuel Thurber, Pedagogics; Professor Upton, Astronomy; Professor Williams, German Language and Literature; Professor Wilson, Social Science.

All communications respecting the Extension Work should be addressed to the Director of the University Extension, Brown University, Providence.

Educational Privileges for Women

By a vote of its Corporation on September 2, 1891, the University opened all its examinations to women. By a further vote on June 21, 1892, it opened all its degrees to women. By a third vote on June 23, 1892, to women already holding Bachelors' degrees, and to other women of liberal education who may secure special permission, it opened, on the same terms as to men, all those of its courses of instruction which are intended for graduate students.

That is, so far as its graduate department is concerned, the University places women on exactly the same footing as men. In respect to instruction, examinations, and degrees, the two sexes are treated precisely alike. The expenses, too, are the same. See below, under "Expenses," "Special University Dues," 6.

In undergraduate studies the University offers to examine all women candidates; and to crown with any of its degrees every woman candidate who passes all the examinations required for the degree sought; but in this department, the University, as such, does not yet offer to women any classroom instruction. First rate undergraduate instruction for women, is, however, provided otherwise. See next page.

The conditions of women's examinations upon undergraduate work are as follows :

Women take entrance examinations at the same times and places and under the same conditions as men. See pages 35-43 inclusive. But women candidates may present certificates in place of entrance examinations, subject to the same conditions which apply to men. All women's examinations in college studies are to be taken at the University, none elsewhere.

To be admitted to advanced examinations, candidates must have passed all entrance examinations, as well as all examinations which cover the work of previous terms.

The subjects for women's examinations, when not identical with those in the courses of instruction given in the University, in all cases closely correspond to them.

Reports of proficiency are given after all examinations. Upon the satisfactory completion of any minor course of study, candidates are given certificates of their attainments, while those who complete with credit any of the regular curricula, of course receive diplomas.

The Women's College

IN CONNECTION WITH

BROWN UNIVERSITY

COMPOSED OF UNDERGRADUATE STUDENTS WHO ARE REGULAR CANDIDATES FOR BROWN UNIVERSITY EXAMINATIONS, RECEIVING UNOFFICIAL INSTRUCTION IN COLLEGE STUDIES

LOUIS FRANKLIN SNOW, A. M., DEAN AND TREASURER

The considerable number of women candidates for undergraduate examinations has induced gentlemen in the faculty to institute systematic preparation for these examinations. Classes are formed in all the required studies, and are instructed by the same men who have in charge the corresponding classes inside the University. Individual preferences in electives are specially provided for. There has thus sprung into existence a Women's College, technically and legally under the University only so far as its examinations are concerned, yet in effect a Department of the University, so closely connected are examinations with the instruction therefor.

Pupils are also admitted to select courses covering but single terms, and even to work in single branches.

Each applicant for registration in such a course must present to the Dean sufficient evidence of her ability to pursue successfully the subject chosen. Also, every select student, unless specially excused by the Dean and by the Professor in charge of her course, must prepare for and pass an examination at the completion of her course.

Admirable arrangements for Physical Culture have been made, whereby the privileges connected with the new and elegant gymnasium of the Providence Athletic Association are open to the students of the Women's College on Tuesdays and Fridays, from 2 to 3 P. M., from October 1 to June 1. Exercise is taken under the personal supervision of a competent

lady instructor. For this gymnasium privilege a special fee is charged. Including locker, this is \$10.00 per annum, payable strictly in advance.

Expenses

To women pursuing undergraduate studies the charges are as follows:

For Instruction: \$2.50 per term, or \$7.50 a year, for every hour of instruction per week. Thus, each full course of studies involving the usual fifteen hours of class-room attendance and instruction a week, costs \$37.50 a term, or \$112.50 a year. Laboratory charges are additional to this. These sums are fixed as nearly as possible by the actual cost of the instruction.

For Entrance Examinations: \$3 for examination leading to a single course; \$10 for a full set.

For Term Examinations: \$10 for each full set, viz., examinations on any full term's work. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the fee is 75 cents per weekly hour's work. Thus, the examination upon a course which requires three hours in class-room weekly costs \$2.25; one upon a course of six hours, \$4.50; and so on.

For Matriculation: Every undergraduate candidate for a degree pays, upon admission to the College, a matriculation fee of \$5.

For Registration: Every special student pays, upon admission to any term course, a registration fee of 25 cents.

Graduation Fee: Every member of the Senior Class pays, at the close of her course, a fee of \$8 for her diploma and other expenses connected with graduation.

It will be seen that the total cost to each student, including the examination fees to the University, is under \$150 a year, therefore somewhat less than the tuition and incidental expenses of a student in the University proper.

Before each University examination period the Dean of the Women's College files with the Registrar of the University

list of all undergraduate candidates for University examinations who are approved by the instructors in the College, thus certifying to the fitness of the candidates to undertake the examinations desired; but no candidate will be approved whose term bill or examination fee is not satisfactorily arranged.

Ladies from a distance wishing to avail themselves of the educational opportunities offered by the University find homes in private families. Every effort is made to arrange for any who may apply.

The Women's Department of the University must soon have an ample, permanent home of its own, a well endowed and commodious college establishment, presided over by an accomplished lady principal. Half a million dollars is needed for this purpose, partly for a suitable building (two contiguous ones would be preferable), with kitchen, parlor, dining, recitation, exercise and debating halls, and dormitory accommodations for fifty or seventy-five occupants; the remainder for scholarships and endowments. No mere "annex" is desired or intended. The College must be part and parcel of the University, giving women students the full university status, and at the same time so furnished, endowed and equipped as to offer them every facility for education, physical and social, as well as intellectual, now anywhere within the reach of male students.

The University Library

The University Library dates from the year 1767, when the Rev. Morgan Edwards collected books for it in England. In 1843, when Professor Jewett's Catalogue was printed, soon after the removal of the books from University Hall to Manning Hall, the Library contained ten thousand volumes.

In 1878, the date of their transference to the present building, the volumes numbered forty-eight thousand. At present

the total number, including the collection of the Soldiers' and Sailors' Historical Society, and the books in the seminary and various department libraries aggregates over eighty thousand bound volumes, and upwards of twenty thousand unbound pamphlets.

The collection of the Soldiers' and Sailors' Historical Society consists of newspaper cuttings from 1861 to 1865, neatly arranged in folio volumes, and of books and pamphlets relating to the Civil War, together constituting an invaluable mass of sources for the history of that period. They are placed in handsome walnut cases on the third floor of the building, and are easily accessible for consultation. The main library is stored in the beautiful and costly building which the University owes to the munificence of the late John Carter Brown. The style is the Venetian Gothic. The arrangements are commodious, the facilities for warming and ventilation are perfect, and the whole structure is strictly fire-proof. The books in the Classical Seminary, numbering fifteen hundred volumes, were recently purchased by Professor Albert Harkness, from funds contributed for this purpose by friends of the University. The collection is devoted chiefly to the language, literature, and antiquities of the ancient Greeks and Romans. The books in the Conant German Seminary Library number six thousand five hundred choice volumes relating to the German language and literature. They were purchased in Germany by Professor Williams from funds contributed by General Olney Arnold, the Hon. A. H. Littlefield, and others, including the Hon Hezekiah Conant, who alone contributed the sum of five thousand dollars. A very promising beginning has been made in equipping a Romance Seminary Library, for which further funds are much needed. These seminary libraries are in Sayles Memorial Hall. The Chemical, Physical, Botanical, and English department rooms also contain important working collections.

The Library has recently been re-arranged on the system of classification first devised for the library of

the Boston Athenæum. On the first two floors are shelved the books most in use, the entire west wing of the Library on the first floor being given up to History, the north wing to periodicals, alphabetically arranged, with Antiquities and Bibliography, while the east wing is occupied by works on Language and Literature. On the third floor are kept certain special collections, such as works devoted to Rhode Island History, Brown University, Baptist History, Agriculture, Patents, besides many thousand volumes of works least frequently consulted, all arranged according to the classification adopted for the lower floors. All purchases are carefully made with reference to the needs of the different departments in their work of research, while at the same time there is kept in view the development of a library of general culture for the use of the students. Though many of the volumes are rare and costly, free access is allowed to the shelves. Upon the tables in the central Reference Room on the first floor are kept the latest numbers of the standard periodicals, American and foreign. Behind them, conveniently arranged, are books of reference.

The Library funds amount to fifty-seven thousand dollars.

Of this sum ten thousand dollars is a bequest from the late Professor Gammell, for the purchase of books relating to the history of the United States. Ten thousand dollars constitute the Olney Fund, for the purchase of botanical books and plants. The Diman Memorial Fund of ten thousand dollars is for the purchase of works on mediaeval and modern history. The remainder forms the Library Fund proper. To this the Hon. Nicholas Brown contributed ten thousand dollars. It also includes a bequest of five hundred dollars from President Wayland, and one of a thousand dollars from the late Albert J. Jones. Additions to these funds are earnestly requested.

The Library is open daily for the delivery of books, from 9 A. M. till 5 P. M.; during the summer vacation, from 10 A. M. till 4 P. M. The Reference Room is open for reading and consultation, every evening in term time from 7 till 10. During the fall term the Librarian gives three practical lectures to the

entering class on books and reading; and in the second and third terms offers to Juniors, Seniors and graduate students a seminary course on Books and Libraries.

The following is a list of donors to the Library during the college year 1893-94, the address in each case being Providence unless otherwise indicated:

Persons

President E. B. Andrews; President James B. Angell, Ann Arbor, Mich.; Prof. J. H. Appleton; Prof. W. W. Bailey; C. W. Bardeen, Syracuse; F. C. Bliss, Surrey, England; Albert S. Bolles, Harrisburg; Rev. C. D. Bradlee, Boston; Hon. J. S. Brayton, Fall River; Mary N. Brandon, Otsego, Mich.; J. M. Burnham; Rev. H. S. Burrage, D. D., Portland; Dr. F. C. Clarke; Prof. G. I. Chace, estate; Miss E. W. Cobb, Hyde Park; Gardner Colby, N. Y.; Jas. H. Dodge, City Auditor, Boston; R. T. Durrett, LL. D., Louisville, Ky.; S. C. Eastman, Concord, N. H.; C. W. Ernst, Boston; R. H. Ferguson; F. A. Ferris, N. Y., Judge S. J. Field, Washington; Mrs. Dr. C. W. Flanders, Beverly, Mass.; C. Ford, Ann Arbor, Mich.; A. D. Weld French, Boston; Prof. H. B. Gardner; A. E. Giles, Hyde Park; G. A. Gordon, Worcester, Mass.; Arnold Green, LL. D.; R. A. Guild, LL. D.; Hon. W. T. Harris, Washington; M. J. Harson; Rev. A. M. Higgins, East Somerville, Mass.; Rev. E. S. Holloway, N. Y.; N. M. Isham; Prof. J. F. Jameson; K. F. Koehler, Leipzig; Librarian H. L. Koopman; A. G. Langley, Newport; Hon. O. Lapham; H. LeSoudier, Paris; Mrs. H. C. Lewis, London; W. E. Lincoln, Pittsburgh; Rev. W. M. Lisle, West Newton, Mass.; Madame Maltchycé; Prof. J. M. Manly; Hon. Levi P. Morton, N. Y.; Prof. W. H. Munro; Prof. A. S. Packard; Dr. G. B. Peck; Prof. John Peirce; W. F. Poole, Chicago; G. F. Pope, Fall River; Dr. G. D. Read; Prof. F. E. Rockwood, Lewisburg, Pa.; G. W. Samson, D. D., N. Y.; J. A. Searight, Uniontown, Pa.; J. H. Shedd, City Engineer; Mrs. T. P. Shepard; Rev. E. O. Stevens, Rangoon; Prof. W. A. Stevens, Rochester, N. Y.; Rev. Dr. J. C. Stockbridge; Hon. T. B. Stockwell; Mrs. Lucy Stone, Dorchester, Mass.; W. L. Stone, Albany, N. Y.; J. S. Sullivan, N. Y.; Dr. G. T. Swarts; Prof. R. H. Thurston, Cornell University; Rev. Dr. J. G. Vose; W. S. Webb, N. Y.; W. B. Weeden; President B. L. Whitman, Colby University; A. R. Wightman; Prof. G. G. Wilson; Rev. A. Woodbury, Plymouth, N. H.

Institutions and Corporations

Academy of Natural Sciences, Phila.; Akerman and Co.; Almanach de Gotlia; American Academy of Arts and Sciences, Boston; American

Antiquarian Society; American Baptist Missionary Union; American Baptist Publication Society, Phila.; American Board of Commissioners for Foreign Missions; American Historical Association, Washington; Argentine Republic; Association of Wool Manufacturers, Boston; Boston City Government; Boston Public Library; Bowdoin College; Brown University; Brunonian; Bureau of American Republics, Washington; Canada Geological Survey; Century Association, New York; Chicago Board of Trade; Cincinnati Public Library; Colby University; Columbia College; Columbian University, Washington; Committee on the Centennial Celebration of Washington's Inauguration, New York; Cornell University; Dartmouth College; Delta Upsilon Fraternity; Free Masons, Grand Lodge, Maine; Free Masons, Grand Council of Massachusetts; Free Masons, Grand R. A. Chapter, Mass.; Funk and Wagnalls, New York; Georgia State Geologist; Georgia State Commissioner of Agriculture; Glasgow University; Gorham Mfg. Co.; Grand Rapids Board of Trade; Guille-Allè's Library, Isle of Guernsey; Hartford Seminary Record; Harvard College Observatory; Harvard Graduates Club; Harvard University; Harvard University Library; Japanese Woman's Commission, Chicago; William Jewell College, Liberty, Mo.; Kansas University Quarterly; Knights-Templar of Massachusetts and Rhode Island; Liberal Club, Buffalo; Maine Association of Congregational Churches; Maine State College; Massachusetts Ancient and Honorable Artillery; Massachusetts Historical Society; Massachusetts Labor Bureau; Massachusetts State Board of Agriculture; Massachusetts State Board of Health; Melbourne University; Mexican Central Railway Company; Miami University; National Council of Congregational Churches; New York Hospital; New York State Library; Nova Scotia Superintendent of Schools; Pennsylvania State College; Perkins Institution for the Blind; Princeton College; Princeton Theological Seminary; Providence City Government; Providence Record Commissioners; Rhode Island Adjutant General; Rhode Island State Board of Health; Rhode Island State Board of Soldiers' Relief; Rhode Island State Government; Rhode Island World's Fair Commissioners; Royal Society of Canada; Smith Concrete Company, London; Society of Arts, London; Theta Delta Chi; Toronto University; Union Club, New York; Union University; Universalist Publishing House, Boston; Consul-General, Uruguay; United States of Venezuela; Virginia State Commissioner of Agriculture; Wesleyan University; Williams College; William and Mary College; Wisconsin Historical Society; Washington—Department of the Interior, Treasury Department, Departments of State, War, Navy, Agriculture, Bureau of Education, Bureau of American Republics, Bureau of Navigation, Commissioner of Labor, Commission of Fish and Fisheries, Civil Service Commission, Senate Finance Committee, Smithsonian Institution, Surgeon-General's Office, etc.; Yale University.

OTHER LIBRARY FACILITIES

Besides the University Library, the five collections of books named below are practically at the service of students in Brown University, comprising, with the University Library, nearly a quarter of a million volumes, exclusive of pamphlets and manuscripts. These six combined collections afford library privileges such as can be found at but very few seats of learning in this country. The first three libraries named are entirely free, and the other two are readily available.

THE PROVIDENCE PUBLIC LIBRARY

All students of Brown University are allowed, upon the same conditions as other residents of the city, to make use of the well selected Public Library of Providence, containing over 64,000 volumes, which enjoys a national reputation for excellence of administration. It is situated at 73 Snow street, and is open evenings, Sunday evenings included. It is also open Sunday afternoons. The Librarian, a graduate of Brown University, prepares lists of references for guidance in the regular essay work of the University. He is glad to be consulted also with respect to books on other departments of University teaching. On the history of Slavery and of the Civil War this library possesses one of the richest collections in America.

THE STATE LAW LIBRARY

This collection of 18,000 volumes may be consulted in the Providence County Court House, at the corner of Benefit and College streets, only a few steps from the University, between the hours of 9 A. M., and 5 P. M. It is accessible to all students and, for certain lines of University study, is invaluable.

THE LIBRARY OF THE RHODE ISLAND HISTORICAL
SOCIETY

The Cabinet of the Rhode Island Historical Society, which has recently undergone extensive enlargement, is situated on

Waterman street, next door to the University Library Building. The Library of the Society comprises about 15,000 bound volumes, and between 30,000 and 40,000 valuable unbound volumes and pamphlets. Through the courtesy of the Society the collection is made accessible, free of charge, to members of the University. It offers especial facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in many departments of general American history.

THE LIBRARY OF THE PROVIDENCE ATHENAEUM

This collection of 55,000 well-chosen volumes, increasing at the rate of over 1,200 yearly, is also situated very near the University. Connected with it is an admirable reading-room, containing a large and choice assortment of papers and magazines, American and foreign. This Library is the property of a private corporation but many students, as well as nearly all the members of the Faculty, own shares, while suitable persons, not shareholders, who are engaged in special research requiring access to the collection, are generously accorded the use of its facilities.

THE LIBRARY OF THE RHODE ISLAND MEDICAL SOCIETY

This is a collection of over twelve thousand books and pamphlets upon medicine, surgery, and kindred branches. Many of them relate to Physiology, Physiological Psychology, Hygiene, and other subjects pursued in the University. Arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This Library is in the Arnold Block, 54 North Main street. It is open every afternoon from 2 to 6 o'clock.

The Sears Reading Room

The Sears Reading Room Association, conducted by the students, occupies a large, commodious, and well-lighted room,

conveniently situated on the first floor of University Hall, fitted up especially for its use, and supplied with all the most important newspapers, daily and weekly, as well as with a variety of the more popular periodicals. The learned and scientific reviews, standard literary magazines and technical journals may be consulted in the University Library.

Brown University Lecture Association

An organization of graduates and friends of the University, known as the Brown University Lecture Association, sustains each winter several courses of free public lectures upon topics in various departments. During the winter of 1893-94, the following courses were given:

William Clarke, Esq., of the *London Daily Chronicle*, gave a lecture on Socialism in England; six evenings were given to Ibsen, Dr. Richard Burton of the *Hartford Courant* lecturing and Mrs. Erving Winslow reading selected plays; Professor James Seth of Brown University delivered a lecture on Agnosticism; Mr. H. E. Krehbiel of New York City gave four lectures on musical subjects, with musical illustrations; Mr. George L. Fox, Master of the Hopkins Grammar School, New Haven, gave four illustrated lectures on The Public Schools of England, and Professor J. Irving Manatt of Brown University four illustrated lectures on Living Greece.

During the season of 1894-95, beginning November 13, the following courses and lectures are offered to the students and the public:

Professor T. W. Rhys-Davids, LL. D., professor of Pali and Buddhist Literature in University College, London, gives six lectures on the History and Literature of Buddhism; Mr. Louis C. Elson, musical critic of the *Boston Daily Advertiser*, will give five lectures upon the music, more especially the symphonies, presented in the concerts of the Boston Symphony

Orchestra in Providence; Professor George L. Goodale, of Harvard University, delivers four illustrated lectures on the Natural History and Ethnology of Australasia; Professor H. C. Bumpus, of Brown University; will lecture on Modern Biological Research. Other lecturers in this Course are Rev. Dr. Edward Everett Hale, Rev. Dr. William Elliot Griffis, William B. Weeden, Esq., A. M., Rev. Joseph E. Twichell, and the President of the University.

The lectures of Professor Rhys-Davids are given as a part of the work of the American Committee for the organization of Lectures in the History of Religions, upon which Brown University is represented through this Association. The expense of these lectures makes it necessary for the Association to ask a small fee (one dollar) for admission to the six lectures on the part of auditors who are not either members of the Association or students of the University. All the other lectures are free to the public, who are most cordially invited to attend. Persons desiring further information or wishing to become sustaining members of the Association are requested to communicate with the Secretary, Professor J. Franklin Jameson, 108 Bowen street.

Art Collections

PORTRAITS

Through the liberality of its friends the University has been presented with a large number of portraits. Most of them are hung in Sayles Hall, the rest in apartments of the other University buildings. The collection includes portraits of benefactors of the University, of some of its former officers, and of other men distinguished in the earlier or the more recent history of Rhode Island. It has been greatly enriched in late years by portraits presented through a committee

appointed by the Alumni, "for the purpose of procuring and placing within the walls of Brown University the portraits of her Presidents, Professors, distinguished graduates and benefactors."

THE MUSEUM OF CLASSICAL ARCHAEOLOGY

IN MANNING HALL

By the further generosity of its friends the University has been enabled to institute a Museum of Classical Archaeology. A collection of plaster casts from works of classical art has been placed in Room No. 1, Manning Hall, which has been appropriately arranged and decorated for this purpose. They are of rare excellence, and of great value for illustrating ancient history, biography and art.

The number of casts in the Museum has been considerably increased by recent donations. The last addition to the collection consists of casts from the Elgin marbles in the British Museum. Further additions will be made soon.

The Museums of Zoölogy and Anthropology

IN RHODE ISLAND HALL

The Jenks Museum of Zoölogy

This Museum is arranged according to the more modern methods of classification, beginning with the lower invertebrates and ending with the mammals. It includes materials not only for general work but for special investigation. There are on exhibition in the gallery, separate from the synoptic collections below, local collections representing the fauna of Rhode Island. Students giving special attention to Zoölogy are allowed to take from the cases such specimens as they need, the aim always being to make the Museum not an exhibition room only but a place for work.

The Museum of Anthropology

Properly to house and exhibit the rapidly growing stores of anthropological matter, a special hall contiguous to the Museum of Zoölogy has been fitted up within two years, permitting a synoptic arrangement of the contents and otherwise greatly facilitating study. This work was done under the superintendence and entirely at the cost of the late Professor John Whipple Potter Jenks, A. M., who served so long and faithfully as the Curator of the original Museum. The Museum of Anthropology contains a great number of rare implements from foreign countries, as well as many once the property of the aboriginal races in our own land. Prehistoric Anthropology is well illustrated by implements of stone, bone, and bronze, with casts, models, and photographs, either collected or purchased by Professor Packard in 1889. They represent France, Italy, England and Switzerland, materials from the Lake Dwellings of Switzerland being especially numerous.

Religious Culture

This is deemed to be of the utmost importance. The public duties of every day begin with religious exercises in the beautiful Sayles Hall, at which all undergraduate students are required to be present. All students are expected to attend divine worship on Sunday, each one reporting to the President at the beginning of the year what church he will attend. The Young Men's Christian Association has meetings on Wednesday evenings during term time, to which all students are welcome. The Bishop Seabury Association holds a service every Friday afternoon. In addition each class has its own meeting for prayer and conference on Friday afternoons.

A Bible Class for students, conducted by the President, meets on Sunday mornings at half-past nine, and a number of other classes, instructed by members of the Faculty, meet weekly for the earnest and critical study of the Scriptures.

Physical Culture

The authorities of Brown University consider the attainment of robust physical health as among the most important aims of residence at College, necessary alike to high scholarship in College, and to the successful performance of duties which arise in later life.

In this view a rational and well regulated system of Physical Training has been devised and is in successful operation. A due measure of such training is required of every undergraduate connected with the University, unless he is physically unable to engage in it.

The Director of the Gymnasium gives each student, upon entering College, a thorough physical examination, at which measurements and strength tests are taken. From this examination a chart is made out for every student, showing his size, strength, and development, and how he compares with the normal standard. Along with these data is given a card indicating how the student's weakness, if any exist, may be remedied, and affording advice in reference to bathing and the general care of the body.

From November until April each pupil is required to exercise four hours a week in the Lyman Gymnasium. This is a building of beautiful architectural design, equipped with all the apparatus usually found in modern structures of the kind. Most of this exercise occurs in classes.

For class drill, the Freshmen swing Indian clubs; the Sophomores employ dumb bells; the Juniors engage in single-stick exercise; the Seniors use fencing foils, advancing, retreating, thrusting, and parrying at the word of command. As a supplement to these drills each class is separated into four divisions, which perform exercises upon chest weights, horizontal and parallel bars, and other apparatus. The movements executed are graded to correspond with the strength and advancement of the several divisions. During the Sophomore and Junior years boxing and wrestling are carried on,

also in classes. These forms of exercise carefully conducted prove to be in the highest degree popular and beneficial.

The remainder of the required four hours per week each student devotes to the fulfilment of the directions given him on the card made out from the measurements taken at the beginning of the year.

Each student is regularly marked and credited in his Gymnasium work, faithfulness and punctuality being the tests. In addition to the above exercise in the Gymnasium, every effort is made to encourage interest in out-door sports and participation in them at proper seasons of the year. Regular exercise in the open air is urged upon students as of primary importance.

Examinations, Standing, and Honors

TERM EXAMINATIONS

Examinations of all the classes are held at the close of each term, or at the completion of definite portions of work in the several studies. A student cannot be admitted to the examination in any study unless his term standing in that study is at least sixty per cent. of the maximum. If excluded for this reason he is considered delinquent in the study. Also, if a student is examined in a given study and fails to receive a mark of at least sixty per cent., he is considered delinquent in that study, and must prepare himself for a subsequent examination.

Any student who, either from failure at examination or because his term standing is below sixty per cent., is delinquent in three or more studies at the close of the term, is not allowed to continue the studies of his class.

A student delinquent in any study of the First or the Second Term must, at the time appointed by the instructor, and before the middle of the term next succeeding that for which he is deficient, be specially examined. Students delinquent at the

close of an academic year must be examined on the Monday or Tuesday immediately preceding the beginning of the next academic year (for 1895, on September 16 and 17). The schedule for these delinquent examinations will be posted in the Registrar's office on Monday morning, September 16. Candidates for degrees delinquent in the studies of a given year, unless for worthy cause they are specially excused by the Faculty, cannot begin the studies of the next year until they have passed successfully the examinations required.

When a student has been absent from a regularly appointed delinquent examination covering a given course, no instructor is authorized to examine him on such course without a written permit from the Registrar, for which a fee of Two Dollars is charged.

A student delinquent in any study who fails to obtain sixty per cent. on special examination, forfeits his connection with his class and, before he is recommended for a degree, must study the subject again, either with a succeeding class or under an instructor appointed by the Faculty.

REGISTRATION

All undergraduate students who desire to attend the University during a given term are required to register at the Registrar's office *on or before the first day of such term*. Every undergraduate student registered or re-registered after the first day of any term is charged for such registration or re-registration a fee of Five Dollars, to be remitted only by the President, and only on presentation of a substantial excuse for the lateness or the change. Any modification of a registration once made is accounted a re-registration.

ATTENDANCE ON COLLEGE EXERCISES

Each student is expected to attend every exercise in the several studies to which he is assigned. When a student is unavoidably prevented from attending his classes, he should immediately report at No. 1, University Hall, to the officer

having charge of excuses. An unexcused tardiness is regarded as an absence. If a student is absent and unexcused he is subject to college discipline. The term-reports sent to the parent or guardian of each student contain the record of all absences.

REPORTS OF PROFICIENCY

A careful record is kept of the proficiency of every student of the University in his several studies. Of each undergraduate student the standing is determined at the close of each term. This is done by so combining his term-standing in each study with the results of the examination in the same, that the term mark shall count for three-fourths of the final result. A report is sent to the parent or guardian of every student, indicating his standing, as arrived at in the manner just indicated, in each of his studies for the term, and announcing his deficiency in any study or studies, if such deficiency exists.

APPOINTMENTS FOR COMMENCEMENT

These are made as follows: Every member of the Senior Class is allowed to present for Commencement an oration or a thesis. From the number of those presented the Professor of Rhetoric, on or before the second Wednesday in April, selects at least one half of both the orations and the theses, and submits them to a committee consisting of the President of the University, the Professor of Rhetoric, and a third member elected each year by the Faculty. This committee select from the orations laid before them such, not exceeding ten in number, as in their judgment have sufficient merit to represent the University with credit at Commencement, regard being had to the oratorical ability of the several writers as determined by their attainments in elocution. The committee select also from the theses such as they deem deserving of particular mention, with reference to the special proficiency shown by the writers in the departments of study which they treat, and to excellence in composition. The number of theses accepted cannot exceed that of the accepted orations. The names of the writers of the theses accepted are printed in the Commencement programme.

SPECIAL HONORS

Opportunity to study for honors is open to members of all classes, but only in connection with courses determined upon by the Faculty. Early in each academic year the Faculty prepares a list of such courses, a copy of which is kept by the Registrar for consultation by the students.

The extra work required in order to secure honors occupies the equivalent of four hours a week during the year, and this whether the course in connection with which the study for honors is carried on extends through two or three terms.

Candidacy for honors is subject to the following conditions:

- 1, No student is allowed to become a candidate who is delinquent in any study or whose average mark in all the studies for the year preceding his application for candidacy has been less than 8.5, and no student is allowed to continue a candidate if at the end of any term his mark in the study in connection with which the honor course is pursued has fallen below 9, or his average mark in all his studies for that term, below 8.5.
- 2, No student can become a candidate who is taking two or more extra studies. No student who is taking a single extra study can be a candidate for more than one honor. No student can be a candidate for more than two honors at the same time. *Provided, however,* that any student whose average standing in all his studies for the year preceding his application for enrolment as a candidate has been 9.5 or over may become a candidate for three honors at the same time; but the candidacy for one of the three honors ceases if during any term the candidate's average standing in all his studies falls below 9.5.
- 3, At the end of any academic year permission may be granted a student to study for one honor during the summer vacation; but this permission can not be granted to students who are already candidates for one or more honors, unless the work for such honor or honors be completed by Commencement Day.
- 4, By leave of the Faculty, a student may at any time withdraw from candidacy for honors.

Application for enrolment as a candidate for honors must be made to the Registrar, on a blank furnished by him for that purpose. Before the application will be received, the applicant must obtain the approval of the instructor in charge of the course specified, attested by his signature on the application blank. In the case of courses beginning the first term, application must be made on or before October 20th; in the case of courses beginning the second term, on or before January 20th; and in case of courses beginning the third term, on or before May 1st.

When a class graduates, the names of those of its members who have obtained honors during their college course, together with the years and subjects in which such honors have been awarded, are printed on the Commencement programme.

Graduate Degrees

The degree of **Master of Arts** is granted under the following conditions: The candidate, already a Bachelor of Arts, of Philosophy, or of Science, must have completed a thorough course, approved by the Faculty and the Board of Fellows, of liberal, graduate study, sufficient in amount to constitute a fifth year of college work, and have passed satisfactory examinations thereupon. By continuous residence at the University, candidates fulfilling the above conditions may receive the degree in one year from graduation; but in cases of partial or entire non-residence the degree will not be conferred under two years from graduation. Candidates for this degree registered as in *in absentia* who yet desire some instruction at the University may receive such. They are required to register at the Registrar's office specially for the course or courses desired, fees being charged accordingly. See below, paragraph 6 under "Expenses."

The degree of **Doctor of Philosophy** is conferred under the following conditions: The candidate must be a Bachelor of Arts, of Philosophy, or of Science. He must have resided at the University at least two years after graduation, pursuing a systematic course of study approved by the Faculty and Board of Fellows, and sustaining satisfactory examinations on the same, concluding his course with a thesis giving evidence of high scholarship and of special excellence in the studies pursued. To receive this degree, one must further possess a good knowledge of Latin, French, and German, unless for special reasons excused in respect to one or more of these languages.

Any person wishing to become a candidate for either of the above degrees should communicate with the Chairman of the Committee on Graduate Studies [see page 21], naming the departments in which he desires to study. Two courses at least are usually required, a Major, and a Minor. The communication is laid before the heads of the departments to which the desired courses relate, who, in correspondence with the applicant, arrange the work in detail.

A student desiring to receive at any given Commencement the degree of Master of Arts after one year's residence, must announce his wish to the Chairman of the Committee, in writing, on or before the 15th of October of the year preceding that Commencement, and must name in his application the department or departments of study in which he desires to be examined.

Every student, also, who desires to receive at any given Commencement the degree of Master of Arts after two or more years of non-resident study, must make similar announcement on or before the 15th of October of the year preceding that Commencement.

A student desiring to receive at any given Commencement the degree of Doctor of Philosophy, must make similar announcement on or before the 15th of October of the second year preceding that Commencement.

A year of work for the degree of Master of Arts, unless performed in residence, cannot be counted as a year of work for the higher degree; and it is not necessarily so counted even when performed in residence.

The examinations of all candidates desiring to receive the degree of Master of Arts or of Doctor of Philosophy at Commencement in any given year, must be completed before the first of June in that year. The dissertations of candidates for the degree of Doctor of Philosophy must be presented to the Faculty, in type-written copy or in print, before the first of May in that year. The approval of such dissertation by the Faculty is essential to the attainment of the degree.

For the University Dues connected with graduate study, see below, under "Expenses."

Academic Hoods

Academic Hoods as below described have been adopted for use by graduates of this University.

The pattern is that commonly used in English and American Universities; doctors' hoods being double, all others single. The material used is worsted stuff or silk. The hood for a Doctor of Divinity is brown, lined with white; that for a Doctor of Laws is entirely of brown, within and without. Except in these two cases the exterior of all hoods is black. All interiors are brown with the single exception of the hood for a Doctor of Divinity, which, as just noted, is white.

Every hood except that of a Doctor of Divinity and that of a Doctor of Laws indicates the grade of the wearer's degree, as follows: Bachelors' hoods, including those of Mechanical and Civil Engineers, are without bindings or edgings. Masters' hoods have white edgings, two inches wide. Hoods for Doctors, other than Doctors of Divinity and Doctors of Laws, have bindings of gold cord.

Any member of the Faculty who holds a degree from some other learned institution may wear the hood proper to the corresponding degree in this University.

Expenses

Term bills are due, and must be paid or their payment secured, on presentation, at the beginning of each term.

REGULAR UNIVERSITY DUES

The dues of each student to the University Treasury are as follows :

	PER TERM	PER ANNUM
Tuition,	\$35.00	\$105.00
General incidentals,	15.00	45.00

[For expenses connected with occupancy of College Rooms, see page 181].

The general incidental expenses are for the printing of programmes, examination papers, and the like, the use of the University Library and Gymnasium, heat for these and also for the halls and recitation rooms, and the wages of servants to care for the same. The charge for incidentals is fixed as nearly as possible at the actual amount of these expenses on an average of several years.

Every undergraduate candidate for a degree pays, upon admission to the University, a matriculation fee of \$5.00.

Every member of the Senior Class pays upon graduation a fee of \$8.00 for his diploma and other extra expenses connected with graduation.

SPECIAL UNIVERSITY DUES

1, *In Chemistry*

Candidates for a University degree who take Course 1, 2, or 3 in Chemistry are charged as follows: for Course 1, \$1.00;

Course 2, \$2.00; Course 3, \$3.00. They also have a special charge for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed \$2.00 per term.

Special students who take no University studies except Courses 1, 2, 3, in Chemistry, pay for these \$10.00 per term. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed \$2.00 per term.

Students who are candidates for University degrees and take advanced courses in Analytical Chemistry, are charged per term, in addition to the Regular University Dues, the sum of \$10.00 for a three-hour course in the Laboratory, and \$20.00 for a six-hour course in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed \$3.00 per term.

Special students who take no University studies except advanced courses in Analytical Chemistry are charged varying sums according to the nature of the courses taken. In an individual case the charge is at the rate of \$4.00 per term for one hour per week of prescribed attendance in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed \$5.00 per term.

Special students engaging places in the Laboratory must each pay for a full term. No deductions are made on account of absence.

2, *In Physics*

Candidates for a degree who study in the Physical Laboratory pay, in addition to the Regular University Dues, a fee of \$5.00 per term.

Candidates for a degree who do shopwork pay, in addition to the Regular University Dues, a fee of \$10.00 per term.

Special students who take no studies except in the Workshop pay at the rate of \$4.00 a term for each hour per week of prescribed attendance in the shop.

3, *In Botany*

Students who take Courses 1, 2, 3 or 7, 8 in Botany pay, in addition to the Regular University Dues, a fee of \$1.00 per term, to cover the cost of illustrative material.

Students taking Courses 4, 5, 6 pay, in addition to the Regular Dues, a fee of \$2.00 per term for the same purpose.

4, *In Comparative Anatomy*

The laboratory charge for each course varies from \$2.00 to \$5.00. In certain courses this fee is remitted in consideration of assistance rendered in and about the laboratory.

5, *In Other Studies*

Special students in the University, except as just specified under Chemistry, Physics, and Botany, pay, as a rule, full tuition and incidentals, but the charge is proportionally less when students are admitted to courses of less than fifteen hours of class attendance a week. Special students occupying rooms of course pay the same rent and special incidentals as candidates for degrees.

6, *For Women's Examinations*

For each full set of examinations, viz., entrance examinations or examinations on any full term's work, each woman candidate pays \$10.00. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the fee is 75 cents per weekly hour's work. Thus, the examination upon a course which requires three hours in class-room weekly costs \$2.25; one upon a course of six hours, \$4.50, etc.

7, *For Graduate Students**

A. A candidate for the degree of Doctor of Philosophy pays the University as follows:

On registration and at the beginning of each Term thereafter for two years, \$50.00.

*With the exception of D, this schedule holds only for candidates registered after January 1, 1894. Those registered before that date pay, except as provided under D, according to the schedule printed in the Catalogue for 1892-93, pages 157, 158.

After such a candidate has paid \$300.00 in tuition he may, if it is necessary to the attainment of his degree, attend the University two more years without additional charge for tuition.

Examination fee, which must be paid before the final examination, \$25.00.

For laboratory expenses, if any, in addition to these sums, see E, below.

B. A candidate for the degree of Master of Arts in residence pays as follows :

- On registration and at the beginning of each Term thereafter for one year, \$50.00.

Such a candidate who, without remitting his studies, becomes a candidate for the degree of Doctor of Philosophy, in case his work for the Mastership is permitted to count toward the higher degree (see page 174) is credited with whatever tuition, \$50.00, \$100.00, or \$150.00, as the case may be, he has already paid. No such credit, however, is allowed for an A. M. examination fee.

After a candidate for the degree of Master of Arts in residence has paid \$150.00 in tuition he may, if it is necessary to the attainment of his degree, attend the University another year without additional charge for tuition.

Examination fee, which must be paid before the final examination, \$15.00.

C. A candidate for the degree of Master of Arts *in absentia* pays as follows :

Registration fee \$25.00.

On registration and at the beginning of each Term thereafter for two years, \$10.00.

After such a candidate has paid \$60.00 in tuition he may, if it is necessary to the attainment of his degree, continue his candidacy and studies two more years without additional charge for tuition.

Examination fee, which must be paid before the final examination, \$15.00.

D. A candidate for the degree of Master of Arts *in absentia* who nevertheless wishes some instruction at the University, is required to register at the Registrar's office for the course or courses desired, and is charged therefor at the following rates:

For each course in any department of the University counting one hour a week, \$5.00 per term.

For each such course counting two or three hours a week, \$10.00 per term.

The \$10.00 term fee under C avails, so far as it goes, to offset these charges, cancelling them, that is, unless they exceed \$10.00.

For laboratory expenses, if any, in addition to the above, see E, below.

E. A candidate receiving part or all of his instruction in a laboratory or laboratories pays, in addition to the charges noted under A, B, or D, as the case may be, the following sums:

For each course in any laboratory other than the Chemical Laboratory counting three hours a week, \$5.00 per term.

For each such course counting six hours a week, \$10.00 per term.

For each course in the Chemical Laboratory counting three hours a week, \$10.00 per term.

For each such course counting six hours a week, \$20.00 per term.

In addition to these laboratory charges, each candidate pays at cost for his individual breakage.

It is, however, provided that no candidate who pays in any term the regular charge of \$50.00 under A or B, or of \$10.00 under C, shall be required to pay in laboratory charges that term, aside from breakage, more than \$35.00.

F. A graduate student not a candidate for a degree is charged according to the rates specified under D and E, above.

GENERAL EXPENSES

The total expenses of students per year vary, of course, according to their habits, tastes, and means, some students expending more than double, even more than treble the amounts of others.

Subjoined are figures denoting the actual yearly expenses, including dues to the University, of several recent students, selected at random. In the case of one of these \$250 paid for everything but board; in that of another \$185 did the same. Two gentlemen kept their total expenditure, including board and all else save clothing, down to the low sum of \$265

apiece. Two others needed for this \$425 each, one year; \$435 and \$450 the next. Another required \$412.87, another \$475. Still another spent \$510 in his Freshman year, \$466 in his Sophomore year, both sums, however including unusual amounts for traveling. So far as ascertained, the largest outlay for college expenses in recent years is reported by a member of the Class of 1890, whose Freshman year cost him \$890, his Sophomore year \$730, his Junior year \$725.

The usual cost of board is at present from \$3.00 to \$5.00 per week. A majority of the students do not pay over \$3.50, and good board can be obtained for \$3.00. Board with furnished rooms, in private families, may be had at from \$5.00 to \$10.00 per week.

Board is not furnished at the University; but a list, kept by the Steward, of eligible families in the city where board can be obtained, is always accessible to students.

THE BROWN UNIVERSITY COÖPERATIVE REFECTORY, an organization constituted and controlled by the students of the University, furnishes its shareholders with truly excellent board exactly at cost, viz., at present at \$3.60 per week. The shares number 120 and their par value is \$10 each. The Refectory is able to accomodate a few students who own no stock, such paying for board \$4.00 per week. A number of shares in the Refectory are for sale at the end of each collegiate year, usually at prices not much above their par value.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so, by giving private instruction, teaching in evening schools, and other occupations not inconsistent with their college duties.

PRICES OF ROOMS AND SUITES

There are in the present dormitories one hundred and twenty-two single rooms and twenty-three suites. Seventeen of the suites have three rooms each, two sleeping rooms and a study, and six of them two rooms each. All the dormitories are supplied with steam heat, students paying therefor according to the size and number of their rooms. The highest price for heat (per suite) is \$30 per annum, the lowest (single rooms), \$10 per annum. The charge for service is \$7 per term or \$21 per annum for each single room; for suites \$24 to \$30 per annum, according to the size and number of the rooms. Each room or suite in the dormitories has its gas meter, and occupants are charged for the actual amount of gas which they consume.

The following conspectus shows the rent and location of each dormitory room controlled by the University. When, without necessity for so doing, three tenants regularly occupy a room or a suite intended for two, fifty per cent. is added to the rent and other charges for the room or suite.

A new building, affording dormitory privileges for seventy-two students is in process of construction, to be ready for occupancy by September, 1895. These rooms will be elegant, perfectly lighted and heated, and every way eligible, forming a valuable and much needed addition to the University's resources for the accomodation of students.

HOPE COLLEGE.						UNIVERSITY HALL.					
	Division	Floor	Windows Face	Bedrooms	Price	No.	Division	Floor	Windows Face	Bedrooms	Price
1	South	1	E. & S.	39 and 36, 35 and 10, and 40, 43 and 44, can be used either as suites or as single rooms.	\$81	10	South	2	S. & W.	2	\$190
2	"	"	W. & S.		87	12	"	"	W.	None	75
3	"	"	W.		81	13	"	"	W.	"	75
4	"	"	E.		78	16	"	"	E.	"	60
5	"	"	E. & S.		81	17	"	"	E.	"	66
6	"	"	W. & S.		87	18	"	"	E. & S.	"	93
7	"	"	W.		81	19	"	3	S. & W.	2 single	180
8	"	"	W. & S.		78	21	"	"	W.	None	72
9	"	3	E. & S.		72	22	"	"	W.	"	72
10	"	"	W. & S.		78	25	"	"	E.	"	60
11	"	"	W.		72	26	"	"	E.	"	60
12	"	"	E.		66	27	"	"	E. & S.	"	81
13	"	4	E. & S.		66	28	"	4	S. & W.	2	160
14	"	"	W. & S.		72	30	"	"	W.	None	60
15	"	"	W.		66	31	"	"	W.	"	60
16	"	"	E.		63	32	"	"	E.	"	57
17	Middle	1	E.		78	33	"	"	E.	"	57
18	"	"	W.		81	34	"	"	E. & S.	"	81
19	"	"	W.		81	36	North	1	W.	"	75
20	"	"	E.		78	40	"	2	W.	"	75
21	"	2	E.		78	41	"	"	W.	"	75
22	"	"	W.		81	43	"	"	W. & N.	2	190
23	"	"	W.		81	44	"	"	E. & N.	None	81
24	"	"	E.		78	45	"	"	E.	"	66
25	"	3	E.		66	46	"	"	E.	"	60
26	"	"	W.		72	47	"	3	W.	"	66
27	"	"	W.		72	48	"	"	W.	"	66
28	"	"	E.		66	50	"	"	W. & N.	2	180
29	"	4	E.		63	51	"	"	E. & N.	None	75
30	"	"	W.		66	52	"	"	E.	"	60
31	"	"	W.		66	53	"	"	E.	"	60
32	"	"	E.		63	54	"	4	W.	"	60
33	North	1	E.		78	55	"	"	W.	"	60
34	"	"	W.		81	57	"	"	W. & N.	2	156
35	"	"	W.		93	58	"	"	E. & N.	None	75
36	"	"	E.		93	59	"	"	E.	"	57
37	"	2	E.		78	60	"	"	E.	"	57
38	"	"	W.		81						
39	"	"	E. & N.		93						
40	"	"	E. & N.		93						
41	"	3	W.		66						
42	"	"	W.		72						
43	"	"	W. N.		81						
44	"	"	E. N.		81						
45	"	4	E.		63						
46	"	"	W.		66						
47	"	"	W. & N.		72						
48	"	"	E. & N.		72						

21 BROWN STREET HOUSE.

4	2	S. W.	One	175
5	"	E. S.	None	75
6	"	W. N.	"	65
10	3	E. S.	"	55
11	"	S. W.	"	65
12	"	W. N.	"	55
13	"	W. N.	"	55

SLATER HALL.

No.	Division	Floor	Windows Face	Bedrooms	Price
1	South	1	E. S. & W.	2	\$200
2	"	"	E. & W.	1	150
3	"	2	E. S. & W.	2	200
4	"	"	E. & W.	2	185
5	"	3	E. S. & W.	2	190
6	"	"	E. & W.	2	185
7	"	4	E. S. & W.	1	125
8	"	"	W.	None	87
9	"	"	W.	"	57
10	North	1	E. W.	2	185
11	"	"	E. W. & N.	2	185
12	"	2	E. W.	2	185
13	"	"	W.	None	51
14	"	"	W. N. E.	2	200
15	"	3	W. E.	2	180
16	"	"	W.	None	40
17	"	"	W. N. E.	2	190
18	"	4	E.	None	51
19	"	"	W.	"	87
20	"	"	W. N. E.	1	110

MESSER HOUSE.

1	1	E. S.	None	\$60
2	"	S. W.	"	60
3	"	W.	"	50
4	"	E.	"	60
5	"	W.	"	25
6	TRUNK ROOM.			
7	2	E. S.	None	65
8	"	S. W.	"	65
9	"	E.	"	45
10	"	W.	"	65
11	"	E.	"	45
12	"	W. N.	"	50
13	3	W.	"	15
14	"	W.	"	15
15	"	E.	"	25
16	"	N.	"	20

MAXCY HOUSE.

1	1	S. & E.	None	\$100
2	"	S.	"	70
3	"	E. & W.	"	30
4	"	N.	"	56
5	"	S. & E.	1	80
6	"	S.	None	70
7	"	N.	1	75
8	"	E. & S.	None	45
9	"	S. & E.	"	15

PEASE HOUSE.

No.	Division	Floor	Windows Face	Remarks	Price
1	No. 27	1	N. & W.		\$125
2	West	"	W.		100
3	"	"	W.		50
4	"	2	N. & W.		125
5	"	"	S. & W.		125
6	"	"	W.		25
7	"	"	S. & W.		60
8	"	3	N. & W.		100
9	"	"	S. & W.		105
10	"	"	W.		50
11	"	"	S. & W.		75
12	No. 29	1	N. & E.		125
13	East	"	S. & E.		100
14	"	"	E.		50
15	"	2	N. & E.		125
16	"	"	S. & E.		125
17	"	"	E.		
18	"	"	S. & E.		75
19	"	3	E.		75
20	"	"	N. & E.		110
21	"	"	S. & E.		105
22	"	"	E.		40
23	"	"	S.		40

The rooms in this building are furnished, and the prices given include gas and washing of linen.

DIRECTORY TO THE DORMITORIES.

Slater Hall, South Division, Rooms, 1 to 9.

Slater Hall, North Division, Rooms, 10 to 20.

University Hall, South Division, Rooms, 1 to 34.

University Hall, North Division, Rooms, 35 to 61.

Hope College, South Division, Rooms, 1 to 16.

Hope College, Middle Division, Rooms, 17 to 32.

Hope College, North Division, Rooms, 33 to 48.

Messer House, Rooms, 1 to 16.

Brown Street House, Rooms 4 to 13.

Pease House, Rooms, 1 to 23.

Maxcy House, Rooms 1 to 9.

The Maxcy and Messer Houses were private residences. The price for each room includes gas for the same.

Fellowships

THE FELLOWSHIP OF THE GRAND ARMY OF THE REPUBLIC

In 1891 the Grand Army of the Republic, Department of Rhode Island, donated to Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the Republic Fellowship Fund. Only the income of the fund can be used. This income goes to aid alumni of Brown University, of acknowledged excellence in scholarship and character, to pursue advanced liberal study; the aim being that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of this Fellowship, when a successor may be appointed for the remainder of the year.

Holders of this Fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows, but the descendants of Union Veterans of the Civil War of 1861-65 are always to be preferred when the other qualifications of candidates are equal. No considerations touching the political or religious preferences of candidates can ever enter into these appointments.

Appointments to this Fellowship are regularly made for one year, but incumbents of special diligence or ability may be re-appointed. The President is authorized to make for the reception and use of the income from this fund such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper.

Applications for the Fellowship must be in the hands of the President on or before May 15th each year.

This Fellowship for the year 1894-95 has been conferred on

RALPH WINFRED TOWER, A. M.

THE PHILADELPHIA ALUMNI FELLOWSHIP

This is another fund, to be ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose is to assist graduate students of special ability in pursuing advanced studies at the University.

Scholarships

The University has about one hundred scholarships. Seventy-two of them are of one thousand dollars each. The income of these is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum marking.* The one-thousand dollar scholarships are as follows, each, unless otherwise indicated, bearing the name of its founder.

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|--|---|
| <i>The eleven Nicholas Brown Scholarships.</i> | <i>The Clark Scholarship, also founded by the Messrs. Ives.</i> |
| <i>The four University Scholarships.</i> | <i>The Albert Day Scholarship.</i> |
| <i>The President's (Sears) Scholarship.</i> | <i>The Henry P. Kent Scholarship.</i> |
| <i>The six Alva Woods Scholarships.</i> | <i>The Romeo Elton Scholarship.</i> |
| <i>The James H. Duncan Scholarship.</i> | <i>The Five Annie E. Waters Scholarships.</i> |
| <i>The Isaac Davis Scholarship.</i> | <i>The L. Fairbrother Scholarship, founded by Mrs. L. Fairbrother.</i> |
| <i>The Arnold Whipple Scholarship, founded by Mrs. Arnold Whipple.</i> | <i>The George Lawton Scholarship.</i> |
| <i>The Ephraim Wheaton Scholarship, founded by James Wheaton.</i> | <i>The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.</i> |
| <i>The Joseph Brown Scholarship, founded by Mrs. E. B. Rogers.</i> | <i>The James Y. Smith Scholarship.</i> |
| <i>The Gardner Colby Scholarship.</i> | <i>The two S. S. Bradford Scholarships.</i> |
| <i>The Crocker Scholarship, founded by Robert H. and Thomas P. Ives, trustees.</i> | <i>The Frances R. Arnold Scholarship.</i> |
| | <i>The Cornelia E. Green Scholarship.</i> |

- The George K. and H. A. Pevear Scholarship.*
- The Joseph C. Hartshorn Scholarship I.*
- The Rogers High School Scholarship*, founded by William Sanford Rogers.
- The James Wheaton Scholarship.*
- The Charles Thurber Scholarship.*
- The Pardon Miller Scholarship*, founded by Mrs. Ann E. Miller.
- The Hezekiah S. Chase Scholarship.*
- The William Bucknell Scholarship.*
- The Austin Merrick Scholarship*, founded by Mrs. Olive E. Merrick.
- The Horatio N. Slater Scholarship.*
- The Earl P. Mason Scholarship.*
- The Newport Scholarship*, founded by William Sanford Rogers.
- The Alexis Caswell Scholarship.*
- The three (Henry) Jackson Scholarships.*
- The Mumford Scholarship*, founded by Mrs. Louisa D. Mumford.
- The Henry Clifford Knight Scholarship*, founded by Miss Amelia S. Knight, in memory of her brother, a member of the Class of 1875.
- The Thurston Scholarship*, founded by Hon. Benjamin F. Thurston.
- The Rufus Babcock Scholarship*, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, Rev. Rufus Babcock, D. D., of the Class of 1821.
- The James Fletcher Blackinton Scholarship*, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the Class of 1847.
- The five William A. White Scholarships*, founded by Mrs. Abby S. A. White in honor of her husband, William A. White of the Class of 1857.

Besides the above scholarships there are others the assignment of which is made subject to special provisions. These are as follows:

The Bartlett Scholarship, of four thousand dollars, founded by MRS. ELIZABETH SLATER BARTLETT, the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aims and by character and scholarship, of rising to distinction and usefulness."

The Glover Scholarships, of five thousand dollars, founded by HENRY R. GLOVER, "in memory of his father, SAMUEL GLOVER, a graduate of the College of the Class of 1808, and of his brother, SAMUEL GLOVER JR., of the Class of 1839." Assignment is made upon the basis of character and attainments.

The Rebecca A. Wheeler Scholarship, of fifteen hundred and seventy-one dollars, founded by the lady whose name it bears, the income to assist some worthy student, preferably a candidate for the Baptist ministry.

The Scholarship of the Class of 1838, of thirty-eight hundred dollars, founded by members of THE CLASS OF 1838, and also assigned upon the basis of character and scholarship.

The Joseph Charles Hartshorn Scholarship II, of two thousand dollars, founded by the gentleman whose name it bears.

The George J. Sherman Scholarships I and II, of one thousand dollars each, founded by the gentleman whose name they bear.

The George Ide Chace Scholarship, of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior Class needing the same, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character."

The Abby Wheaton Chace Scholarship, of four thousand dollars, also founded by Professor George Ide Chace, the income to be assigned yearly by the Faculty to some member of the Junior Class needing the same. Here, too, the recipient must be characterized by "marked ability, exemplary industry, generous aspirations, and irreproachable character."

If in either the Senior or the Junior Class there chance to be no person answering the above descriptions, the proceeds of the scholarship for that year must, under the proper direction, be appropriated to the purchase of books for the Library of the University.

For the year 1894-95 the George Ide Chace Scholarship was awarded to

FRED DAVIS ALDRICH.

and the Abby Wheaton Chace Scholarship to

CHESTER STANLEY CHURCHILL.

AID FUND

This is a fund of several thousand dollars, the income of which is applied, either by loan or by gift, to the assistance of deserving young men of limited means.

THE CHARLES SMITH BRADLEY FREE BED IN THE RHODE
ISLAND HOSPITAL

This was established in 1872 by a payment to the Hospital of Four Thousand Dollars by the late Judge Bradley, a member of the Board of Fellows. This endows a Free Bed "under the control of the President of Brown University, for the time being, for the benefit of any officer or student of that Institution who may have occasion for it."

THE GEORGE IDE CHACE FREE BED IN THE RHODE ISLAND
HOSPITAL

This was established and is to be permanently maintained by a payment to the Hospital of Four Thousand Dollars by the late Professor George Ide Chace. This Foundation gives to the President of the University "the right to nominate and send to said Hospital a patient, being a proper subject for treatment in said Hospital, according to the rules of the institution, to occupy a bed in said Hospital, and to receive the usual care, and medical, surgical, and other attendance, and medicines and board, free of charge."

Premiums

I, FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums. These are derived from the income of a fund presented to the University by the REV. FRANCIS WAYLAND, D. D., while President. They are awarded each year to those members of the Freshman Class who are found upon special examination to have attained the highest excellence in the studies required for admission to College in Greek, Latin and French. For the highest attainment in each of these several studies a first premium of twenty dollars is awarded; for the next highest a second premium of ten dollars.

The examinations for these premiums deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Great importance is attached to the pupil's familiarity with the subject-matter of the works read and to his ability to translate with accuracy and facility into clear, appropriate, and idiomatic English.

The most recent award (1894) of these premiums was as follows:

GREEK

The First Premium to WILLIAM EUGENE WINCHESTER, instructed by William T. Peck, D. Sc., in the Providence High School.

The Second Premium in equal parts to ARTHUR GEORGE HOST, instructed by William T. Peck, D. Sc., in the Providence High School, and to THOMAS ELWOOD STEERE, instructed by Edward A. Swain, A. M., in the University Grammar School.

LATIN

The First Premium to THOMAS ELWOOD STEERE, instructed by Edward A. Swain, A. M., in the University Grammar School.

The Second Premium to WILLIAM EUGENE WINCHESTER, instructed by William T. Peck, D. Sc., in the Providence High School.

FRENCH

The First Premium to CLINTON HARVEY CURRIER, instructed by Miss Camille Benson, in the Manchester, N. H., High School.

The Second Premium to WILLIAM EUGENE WINCHESTER, instructed by William T. Peck, D. Sc., in the Providence High School.

MATHEMATICS

The Hartshorn Premiums. These are derived from the income of a fund of one thousand dollars, presented to the University by JOSEPH C. HARTSHORN, A. M., of the Class of 1841. The income furnishes three Premiums.

These are awarded to those members of the Freshman Class who are found, upon examination, to excel in the preparatory mathematical studies.

The last award (1894) of these premiums was as follows:

The First Premium to CHARLES CARROLL, prepared in the Providence High School.

The Second Premium to RALPH KINGSLEY HYDE, prepared in the Providence High School.

The Third Premium to WILLIAM EUGENE WINCHESTER, prepared in the Providence High School.

II, FOR EXCELLENCE IN COLLEGE STUDIES

The Carpenter Prizes for Elocution. These are: a First Prize of sixty dollars; a Second Prize of thirty-six dollars; a Third Prize of twenty-four dollars.

They are derived from the income of a fund established by THOMAS CARPENTER, and are awarded annually to the three members of the Sophomore Class to whom are assigned, respectively, the first, the second, and the third rank of excellence in elocution. The assignment is made by a committee appointed for the purpose, and after trial at a public exhibition given on the Monday evening before Commencement.

The competitors must be members of the Sophomore Class. They may declaim pieces in either prose or verse, selected from English authors. These selections must be approved by the Instructor in Elocution. Competitors are to enter their names with this Instructor not later than the first day of May.

The Committee of Award consists of five members, and is formed as follows: the Professor or the Instructor in Elocution, who is the chairman; two persons elected by the Corporation; also two elected by the Sophomore Class during the first term of the year: it being understood that no one who is or has been a member of the class is eligible.

The Committee for 1894 awarded the prizes as follows:

The First, to JAMES PRIMROSE WHYTE.

The Second, to ARTHUR DEERING CALL.

The Third, to GASHIERIE DE WITT DOWLING.

The Hicks Prizes for Excellence in Debate. These are two, derived from the income of a fund presented to the University by the HON. RATCLIFFE HICKS, of the Class of 1864. They are annually awarded to the two members of the Junior Class who, in the judgment of a carefully selected committee, display the greatest ability in debate. The contest is held on the evening before Class Day.

For the year 1894 the prizes were awarded in equal parts to

CHESTER WILLARD BARROWS

and

RICHARD MINER VAUGHN.

The Dunn Premium. A fund amounting to somewhat over eight hundred dollars was presented to the University by pupils and friends of the late PROFESSOR ROBINSON POTTER DUNN, D. D., the income to be given, at the *end of the Junior year*, to the student having the highest standing in rhetorical studies, "rhetorical studies" meaning here those in charge of the Department of Rhetoric and Oratory. The nomination for this Premium is made by the gentlemen instructing in this Department, and has regard to the number of studies which competitors have taken, as well as to the rank which they have attained therein.

For the year 1893-94 this premium was awarded to

CHESTER WILLARD BARROWS.

The Carpenter Premiums. These are two, of sixty dollars each, derived from the income of a fund established by THOMAS CARPENTER and LYDIA CARPENTER.

These premiums are assigned at the *end of the Senior year*, to the two members of the Senior Class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life: ability, character, and attainment."

For the year 1893-94, the Carpenter Premiums were awarded to

WILLIAM WASHBURN MOSS

and

WILLIAM DOUGLAS.

The Howell Premium. This fund, amounting to one thousand dollars, was presented to the University by the late GAMALIEL LYMAN DWIGHT. The income is given at the close of the second term of the Senior year, to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for this Premium, a student must select at least one of the elective studies in Pure or Applied Mathematics offered each term from the Freshman year to the end of the second term in the Senior year.

For the year ending 1893-94 this premium was awarded to

WILLIAM WASHBURN MOSS.

The Class of 1873 Prize. A fund amounting to five hundred dollars was presented to the University by THE CLASS OF 1873, on the condition that its income should be used as a prize for an Essay. The prize is annually offered for competition to members of the Senior Class.

On Commencement Day, June 20, 1894, the President announced the award of this prize to

LEWIS ANTHONY WATERMAN.

The Foster Premium in Greek. This premium is derived from the income of a fund of three thousand dollars bequeathed to the University by the late HON. LAFAYETTE SABINE FOSTER, LL. D., of the Class 1828.

In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's Iliad or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior Class, will be held early in May, 1895. Candidates will be examined in the Oration on the Crown.

On Commencement Day, June 20, 1894, the President announced the award of this prize to

WILLIAM WASHBURN MOSS.

The Lucius Lyon Premiums in Latin. These are derived from the income of a fund of five thousand dollars presented to the University by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the Class of 1844. Five-tenths of the income each year form the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded only as the result of a special examination held during the last term of the Senior year, and only for real merit. The examination may relate to (1) the Latin Language, (2) Roman Literature, (3) Roman History, or partly to one of these subjects and partly to another, or both the others. The President of the University and the Head of the Latin Department prescribe for admission to the examination such conditions as in their judgment will secure the best results.

For the year 1893-94 the prizes were awarded as follows:

The First, to WILLIAM WASHBURN MOSS.

The Second, to WILLIAM DOUGLAS.

The Third, to JOHN SMITH SHIPPEE.

The Senior Prizes in Oratory. Two prizes, of Sixty Dollars and Forty Dollars respectively, were in 1894 offered for the best and the second best of the orations pronounced at Commencement by members of the Graduating Class.

These prizes were awarded as follows :

The First, to CLAYTON SEDGWICK COOPER.

The Second, to THOMAS CROSBY JR.

Senior Essay Medal. The National Society of the Sons of the American Revolution offers for competition at the annual Commencement, a large, handsome Silver Medal, to be awarded by the Faculty on behalf of the Society for the best Senior essay, containing not less than 1600 and not more than 2000 words, upon the Principles Fought for in the War of the American Revolution. The Medal bears the name of the winner and the name of the University. A copy of the prize essay from each institution where the competition occurs is sent to the President-General of the Society. These essays are referred to a select committee of the Society, which awards to the writer of the one it deems the most meritorious a large Gold Medal, of the value of One Hundred Dollars.

The Competition at Brown University is in charge of the Department of Rhetoric and Oratory.

The Gaston Prize Medal for Excellence in Oratory. In 1894, the widow and children of Hon. William Gaston, a graduate of the University in the Class of 1840, and afterward Governor of Massachusetts, donated to the University the sum of Three Thousand Dollars, from the income of which there is to be annually provided a Gold Medal bearing the name "William Gaston," to be awarded to that member of the Graduating Class "who shall write and at Commencement pronounce in English the best oration."

Any member in good standing, of the Senior Class may compete for this Medal provided he has been five full terms at the University, and has regularly attended and faithfully performed the work in Elocution and Oratory required during the course, showing himself proficient as a speaker and writer.

Each competitor is required to deposit in the Registrar's office, on or before noon of the first Monday in the Spring term, an oration of his own composition, type-written and signed with his name. No oration as completed for delivery may consist of more than one thousand words.

Before it is delivered at Commencement each oration must be rehearsed at least five times before the Professor or Instructor in Oratory, such rehearsals to be completed at least one week before Commencement Day. At the first rehearsal each speaker is required to hand to the Instructor in Rhetoric and Oratory an autograph copy of his oration for preservation in the University Library.

The Committee of Award consists of three persons not members of the Faculty, to be selected as follows: one by the President of the University, one by the Faculty, and one by the contestants. No speaker at Commencement is permitted to make use of a prompter. The members of the committee take into account thought, composition and delivery.

Special Honors in the Class of 1894

FOR THE SOPHOMORE YEAR

HENRY MILTON BARRY,	Rhetoric.
FRANCIS CHACE BLISS,	German.
THOMAS CROSBY JR.,	Rhetoric.
WILLIAM DOUGLAS,	French, Latin.
WILLIAM COLVER HILL,	German.
ALLAN BENTON MORTON,	Greek, French.
WILLIAM WASHBURN MOSS,	} Mathematics.
	{ German, Greek.
JOHN SMITH SHIPPEE,	French.
MORTON COLLINS STEWART,	German.
ALBERT ELLSWORTH THOMAS,	Rhetoric.
LEWIS ANTHONY WATERMAN,	German, Greek.

FOR THE JUNIOR YEAR

HENRY MILTON BARRY,	English.
THOMAS CROSBY JR.,	English.
WILLIAM DOUGLAS,	History.
EDWARD FRANCIS GAMWELL,	Rhetoric and Oratory.
FRANCIS CHESTER ROCKWELL JACKSON,	German.
ALLAN BENTON MORTON,	Latin, German.
WILLIAM WASHBURN MOSS,	Mathematics.
JOHN SMITH SHIPPEE,	Greek, Latin.
MORTON COLLINS STEWART,	German.
LEWIS ANTHONY WATERMAN,	German.
MARY EMMA WOOLLEY,	History.

FOR THE SENIOR YEAR

WILLIAM DOUGLAS,	Latin.
ADOLPH CONRAD ELY,	German.
MILLER MOORE FOGG JR.,	English.
ALLAN BENTON MORTON,	Latin.
WILLIAM WASHBURN MOSS,	Latin, Mathematics.
HENRY DEXTER SHARPE,	History.
JOHN SMITH SHIPPEE,	Latin,
MORTON COLLINS STEWART,	German.
MARY EMMA WOOLLEY,	Latin, History.

Degrees Conferred in 1894

DEGREES IN COURSE

THE DEGREE OF BACHELOR OF ARTS

ON

CHARLES SPAULDING ALDRICH,	JOHN HOPE,
HENRY MILTON BARRY,	FRANCIS CHESTER ROCKWELL
RUSSELL HALL BIRGE,	JACKSON.
FRANCIS CHASE BLISS,	RICHARD WILLIAMS KIRKLEY,
WILLIAM CLIFTON BOURNE.	FRANK EDWIN LAKEY,
HERBERT DANIEL CASEY.	JOSEPH WEST LEWIS.
GEORGE MASON CHAMBERLIN,	ROBERT STEWART MACGREGOR,
CLAYTON SEDWICH COOPER,	BENJAMIN ELBRIDGE MARTIN,
GEORGE MARCUS CROWELL,	EDWARD BRUCE MERRIMAN,
WILLIAM TULLY DORRANCE,	JAMES SPENCER MOORE,
WILLIAM DOUGLAS,	ALLAN BENTON MORTON,
CHARLES HAIGH ELLIS,	WILLIAM WASHBURN MOSS,
ADOLPH CONRAD ELY,	EDGAR SMILEY NASH,
EUGENE ELLSWORTH EVERETT,	CHARLES SPURGEON NIGHTINGALE,
JOHN RUSSELL FERGUSON,	JOSEPH BERCHMAN O'NEIL,
HAROLD CRINS FIELD,	DAVID BANGS PIKE,
MILLER MOORE FOGG JR.,	ALBERT JOSEPH POPE,
JAY SCHUYLER FOX,	SETH PADELFOED REMINGTON,
ARCHIE NORWOOD FROST,	SAMUEL WILLARD RICHARDSON,
EDWARD FRANCIS GAMWELL,	LOUIS ALEXANDRE ROUX.
GEORGE WARREN GARDNER,	HENRY DEXTER SHARPE,
DANIEL FARRINGTON GEORGE,	JOHN SMITH SHIPPEE,
CLIFFORD HENRY GRIFFIN,	FRANCIS HAMILTON STAPLES,
LIVINGSTON HAM,	FRANK STEERE,
GEORGE ROBINSON HAZARD,	MAHLON RUNYON STOUT,
HAROLD DEXTER HAZELTINE,	ISRAEL STRAUSS,
CARL ERNEST HEALY,	FOSTER WILLIAMS TAFT,
SAMUEL MCPHERSON HIGGINS.	FRED TENNEY,
WILLIAM COLVER HILL,	ALBERT ELLSWORTH THOMAS,
WILLIAM PITT HINCKLEY,	LEWIS ANTHONY WATERMAN,
GEORGE WOODLEY HOGG,	ANNE TILLINGHAST WEEDEN,
	MARY EMMA WOOLLEY.

THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

JOHN WILLIAM BEVERLY,	EDWIN KNOWLES JR.,
WILLIAM ALVA BRADY,	FREDERICK WILLIAM MARVEL,
SAMUEL WILLARD BRIDGHAM,	JOSEPH BELFIELD MCINTYRE,
WALTER DEXTER BROWNELL,	HAROLD THURSTON MERRIMAN,
FREDERICK WILKINSON COLBURN,	GEORGE LAFAYETTE RIFENBURG,
THOMAS CROSBY JR.,	EDMUND JOB STEERE,
HEZEKIAH ANTHONY DYER,	MORTON COLLINS STEWART,
GEORGE SHELDON ELLIS,	HOWARD EDWIN SUMNER,
WILLIAM CASWELL HUNTOON,	WALTER HAMMOND KIMBALL,
RODDO YORK YOUNG.	

THE DEGREE OF CIVIL ENGINEER

ON

JACOB HAYMAN.

THE DEGREE OF BACHELOR OF PHILOSOPHY

in connection with his class

ON

JAMES RICHARDSON JR., Class of 1882.

THE DEGREE OF BACHELOR OF ARTS

in connection with their respective classes

ON

HENRY GORDON GAY, Class of 1863,

CHARLES HORACE WHEELER, Class of 1882.

THE DEGREE OF MASTER OF ARTS

after examination

ON

EARL CHAPMAN ARNOLD, B. P.	ELIZA SHAW KING, A. B.
ALBERT LESLIE BARBOUR, A. B.	JULIUS KUMPEI MATUMOTO, A. B.
THEODORE ELMER BUSHFIELD, A. B.	LEWIS HAMILTON MEADER, A. B.
STEPHEN SHELDON COLVIN, B. P.	WENDELL AXTELL MOWRY, A. B.
ORIN PARKER DURKEE, B. P.	WINTHROP JOHN VANLEUVEN
ROBT. HENRY FERGUSON, A. M.,	OSTERHOUT, A. B.
B. D.	PERCY DINSMORE SMITH, A. B.
IRVING LYSANDER FOSTER, A. B.	MARTHA TARBELL, A. M.
FREDERICK POOLE GORHAM, A. B.	HARRIET MAY WHITE, A. B.
HORACE EDGAR JACOBS, A. B.	WILLIAM ALLEN WILBUR, A. B.

THE DEGREE OF DOCTOR OF PHILOSOPHY

ON

ASA CLINTON CROWELL, A. M.

ARTHUR NEWTON LEONARD, A. M.

HONORARY DEGREES

THE DEGREE OF MASTER OF ARTS

ON

ARTHUR LEWIS BROWN,

SARAH ELIZABETH DOYLE,

JAMES LELAND HOWARD.

CHARLES HENRY MERRIMAN,

ERASTUS RICHARDSON,

JOEL HERBERT SHEDD.

THE DEGREE OF DOCTOR OF SCIENCE

ON

ELMER LAWRENCE CORTHELL,

RAY GREENE HULING,

WILLIAM THANE PECK,

JOHN PEIRCE.

THE DEGREE OF DOCTOR OF DIVINITY

ON

THOMAS DAVIS ANDERSON,

THOMAS BURGESS,

REGINALD HEBER HOWE.

THE DEGREE OF DOCTOR OF LAWS

ON

REUBEN THOMAS DURRETT,

ARNOLD GREEN.

STUDENTS

GRADUATES

CANDIDATES FOR THE DEGREE OF DOCTOR
OF PHILOSOPHY

BERTHA BASS, A. M. Wesleyan University 1889 History, Political Science	<i>Newport,</i>	11 Greene St.
CLAUS ALFRID BERGSTRÖM, A. B. Brown University 1888; B. D. Yale University 1891 Philosophy, History	<i>Providence,</i>	32 Grand St.
EDMUND CODY BURNETT, A. B. Brown University 1890 History, Greek, Political Economy	<i>Mossy Creek, Tenn.</i>	108 Bowen St.
STEPHEN SHELDON COLVIN, A. M. Brown University 1894 Philosophy, English	<i>Providence,</i>	51 Angell St
WILLIAM WOODSIDE CURTIS, A. M. Bowdoin College 1885 History, Philosophy	<i>Pawtucket,</i>	Pawtucket.
JAMES QUAYLE DEALEY, A. M. Brown University 1893 Political Science, History, Sociology	<i>Dallas, Texas,</i>	6 Camp St.
CHARLES EDWARD DENNIS JR., A. M. Brown University 1890 Latin, Greek, Ancient History	<i>Providence,</i>	56 Messer St.
WILLIAM HOLDEN EDDY, A. M. Brown University 1893 German, Romance Languages	<i>Providence,</i>	36 Bradford St.
ADOLPH CONRAD ELY A. B. Brown University 1894 German, Romance Languages	<i>Plantsville, Conn.,</i>	University 13
ROBERT HENRY FERGUSON, A. M. Brown University 1887; B. D. Newton Theological Institution 1887 Philosophy, Psychology	<i>Boston, Ms.,</i>	715 Westminster St.

- MILLER MOORE FOGG JR., *Marmora, N. J.*, Pease House 18.
A. B. Brown University 1894
English, Rhetoric
- IRVING LYSANDER FOSTER, *East Killingly, Ct.*, Germany.
A. M. Brown University 1894
German, Romance Languages
- FREDERIC POOLE GORHAM, *Providence.* 237 Knight St.
A. M. Brown University 1894
Comparative Anatomy, Geology
- ALBERT WALKER HINDS, *W. Boylston, Ms.*, 98 Bowen St.
A. M. Harvard University 1889
Greek, Latin
- HENRY DWIGHT HUNT, *New Haven, Ct.*, 101 Williams St.
Ph. B. Yale University 1892
German, French, Pedagogy
- WALTER BALLOU JACOBS, *Providence.* 362 Point St
A. M. Brown University 1885
Philosophy, Pedagogy
- ALBERT BUSHNELL JOHNSON, *East Providence, East Providence.*
A. M. Brown University 1892
Romance Languages, German
- ERNEST HENRY JOHNSON, *East Providence, East Providence.*
A. M. Brown University 1892
German, Romance Languages
- LEWIS HAMILTON MEADER, *Providence,* 21 Andem St.
A. B. Dartmouth College 1878; A. M. Brown University 1894
History, Political Science, German
- ALEXANDER MEIKLEJOHN, *Pawtucket,* Pawtucket.
A. B. Brown University 1893
Philosophy, Psychology
- GEORGE PLUMER MERRILL, *Minneapolis, Minn.*, 80 Congdon St.
A. B. University of Minnesota 1893
Political and Social Science, Modern Languages
- GOLDSBERRY BOBO MERRITT, *Fall River, Ms.*, Fall River.
A. M. Antioch College 1892
Semitic Languages, Philosophy of Religion
- WILLIAM WASHBURN MOSS, *Providence,* 231 Broadway.
A. B. Brown University 1894
Political Science, Political Economy, Mathematics
- WINTHROP JOHN VANLEUVEN OSTERHOUT, *Providence,* 18 Oak St.
A. M. Brown University 1894
Botany, Biology
- ALBERT DEFOREST PALMER, *Plaistow, N. H.*, Wilson Hall.
B. P. Brown University 1891
Physics, Chemistry, Mathematics

CHARLES MARSHALL POOR,	<i>Manchester, N. H.,</i>	8 Angell Place.
A. B. Brown University 1893; A. M. Leland Stanford University 1894		
German, English		
JOHN SMITH SHIPPEE,	<i>East Greenwich,</i>	East Greenwich.
A. B. Brown University 1894		
Latin, Greek		
AUGUSTUS TABER SWIFT,	<i>New Bedford, Ms.,</i>	37 Creighton St.
A. M. Brown University 1890		
German, French, English		
MARTHA TARBELL,	<i>Providence,</i>	169 Power St.
A. M. Brown University 1894		
German, French		
CARL VERNON TOWER,	<i>Dayton, O.,</i>	261 Benefit St.
A. B. Brown University 1893		
Metaphysics, Psychology		
RALPH WINFRED TOWER,	<i>Bristol, Ct.,</i>	Brown University.
A. M. Brown University 1893		
Comparative Anatomy, Physiology		
WALTER HARRIS YOUNG,	<i>Warren,</i>	Warren.
A. M. Brown University 1892		
Philosophy, Greek		

CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

I. Fully in Residence

HENRY MILTON BARRY,	<i>Saxtons River, Vt.,</i>	University 57.
A. B. Brown University 1894		
English Literature, English Language		
THOMAS CROSBY JR.,	<i>Newport,</i>	Slater 20.
B. P. Brown University 1894		
English Literature, English Language		
HOWARD DORRANCE DAY,	<i>Providence,</i>	Medway St.
A. B. Yale University 1893		
Physics, Mathematics		
EDWARD FRANCIS GAMWELL,	<i>Holliston, Ms.,</i>	159 Benefit St.
A. B. Brown University 1894		
English, Rhetoric		
FREDERIC MELLEN KNIGHTS,	<i>Burlington, Vt.,</i>	Hope 36.
B. S. University of Vermont 1894		
Chemistry, French, Geology		
ALLAN BENTON MORTON,	<i>Kingston, Pa.,</i>	Hope 6.
A. B. Brown University 1894		
Latin, Greek		

WENDELL AXTELL MOWRY, A. B. Brown University 1893 Zoölogy, Geology	<i>Woonsocket,</i>	Woonsocket.
ALBERT ELLSWORTH THOMAS, A. B. Brown University 1894 English, Philosophy	<i>Brockton, Ms.,</i>	Slater 14.
MARY EMMA WOOLEY, A. B. Brown University 1894 History, Political Economy, Political Science	<i>Pawtucket,</i>	Pawtucket.

II. Registered as *in absentia* yet resident near the University and able to
enjoy certain of its privileges.

GEORGE FREDERICK ANDREWS, A. B. Brown University 1888 Zoology, English	<i>Providence,</i>	91 Almy St.
ELI WHITNEY BLAKE JR., A. B. Brown University 1888 Zoology, English	<i>Providence,</i>	72 Waterman St.
JOSEPH BRIDGHAM, B. P. Brown University Botany, Comparative Anatomy	<i>East Providence,</i>	East Providence.
EMMA ELIZABETH BROWN, A. B. Smith College 1891 German	<i>Providence,</i>	170 Prospect St.
ERNEST HENRY BROWNELL, A. B. Brown University 1888; B. S. Mass. Institute Technology 1890 Geology, Astronomy, Physics	<i>Providence,</i>	4 Cushing St.
LEONARD HERBERT CAMPBELL, A. B. Brown University 1892 History, Political Economy	<i>Providence,</i>	213 Pavilion Ave.
EDWARD NORTON CASEY, A. B. Brown University 1893 Social Science, History	<i>Whiting, Vt.,</i>	Providence.
SAMUEL ANDREWS EVERETT, A. B. Brown University 1891 English, Political Economy	<i>Providence,</i>	Providence.
EDGAR BENJAMIN FRENCH, A. B. Brown University 1890 German, Philosophy	<i>Pawtucket,</i>	Pawtucket.
LILLIAN LEE GARDNER, A. B. Claverack College 1890 German, English	<i>Warren, Ill.,</i>	Providence.
JOHN FREDERICK HALLER, A. B., M. D. Buffalo Medical School 1888 German, English, Rhetoric	<i>Providence,</i>	271 Washington St.

HENRY HARMON HASTINGS, A. B. Bowdoin College 1890 History, Constitutional Law	<i>Pawtucket,</i>	Pawtucket.
ELLEN MARIA HINDS, A. B. Smith College 1889 English, Mathematics	<i>Providence,</i>	103 Governor St.
MARTIN WILMARTH KERN, B. P. Brown University 1892 Mechanics, German	<i>Providence.</i>	81 Chestnut St.
FRANK EDWIN LAKEY, A. B. Brown University Social Science, History	<i>Providence,</i>	127 Cranston St.
CHARLES ALBERT MEADER, A. B. Brown University 1891 Philosophy, German	<i>Pawtucket,</i>	Pawtucket.
EDWARD BARNES NIVER, A. B. Brown University 1893 Philosophy, Sociology	<i>Providence,</i>	31 Common St.
WILLIAM HENRY O'NEIL, B. P. Brown University 1892 History, German	<i>Providence,</i>	10 Kepler St.
GEORGE HERBERT PERKINS, A. B. Harvard University 1884 Mathematics, Mechanics	<i>Providence,</i>	19 Angell St.
JAMES ALDRICH PIRCE, A. B. Brown University 1892 History	<i>Johnston,</i>	Johnston.
WILLIAM JOB REYNOLDS, A. B. Brown University 1886 History	<i>Providence,</i>	268 Waldo St.
WALTER HERBERT RUSSELL, A. B. Boston University 1887 German, French	<i>Barrington Centre,</i>	Barrington.
HENRY DEXTER SHARPE, A. B. Brown University 1894 History, Political Economy	<i>Providence,</i>	56 Angell St.
LUCIAN SHARPE JR., A. B. Brown University 1893 History, Political Economy	<i>Providence,</i>	56 Angell St.
DENNIS HARVEY SHEAHAN, A. B. Brown University 1889 History	<i>Providence,</i>	138 Veazie St.
CATHERINE MARIA UTTER, A. B. Vassar College 1894 Architecture, Comparative Philology	<i>Providence,</i>	172 Pleasant St.

HERMAN WILLIAM WÄTJEN, *Warren,* Warren.
A. B. Brown University 1890; B. D. Newton Theological Institution 1893
Social Science, Philosophy

EDWARD HENRY WEEKS, *Providence,* Friends School.
B. P. Brown University 1893
History, Social Science

III. Fully *in absentia*

EMILY FRANCES ALLEN, Box 2177, *Boston, Ms.*
B. P. Boston University 1891
English Literature, History

NEIL ANDREWS JR., *Newton Centre, Ms.*
A. B. Brown University 1892
History, Philosophy

HENRY WARD BEECHER ARNOLD, *Meriden, N. H.*
A. B. Brown University 1893
Mathematics, Mechanics, Physics

EDWARD OTIS BARTLETT, JR., *Cornwall-on-Hudson, N. Y.*
A. B. Brown University 1891
German, French

JOSIAH BARTLETT, *Sing Sing, N. Y.*
B. P. Brown University 1888
Mathematics, German

ARTHUR TRAIN BELKNAP, *Newton Centre, Ms.*
A. B. Brown University 1893
English, Philosophy

ALEXANDER PHOENIX BOURNE, *Andover, Ms.*
A. B. Brown University 1890
Social Science, Philosophy

WARREN GARDNER BULLARD, *Geneva, N. Y.*
A. B. Brown University 1892
Mathematics, Philosophy

CHARLES EDWARD BURDETTE, *Gauhati, Assam, India.*
A. B. Brown University 1880
Sanskrit

THEODORE ELMER BUSFIELD, 155 Miller St., *Utica, N. Y.*
A. B. Tufts College 1880
History

WILLIAM ALLEN CALDWELL, *Lebanon, Tenn.*
A. B. Cumberland College 1892
Greek, German, Latin, Spanish

SETH HOWARD CHACE, *East Freetown, Ms.*
A. B. Brown University 1893
Political and Social Science

- HERSCHEL LUTHER GARDNER, 118 E. 45th St., *New York City*.
A. B. Columba College 1892
History, Constitutional Law
- WILLIAM JOHN GREEN, 63 Irving Place, *New York, N. Y.*
A. B. Brown University 1891
History, Political Economy
- GEORGE ROBINSON HAZARD, *Baltimore, Md.*
A. B. Brown University 1894
Hebrew, History, Philosophy
- HAROLD DEXTER HAZELTINE, *Warren, Pa.*
A. B. Brown University 1894
Political Science, History, English
- DANIEL HOWARD, *Wallingford, Ct.*
A. B. Brown University 1893
History, Social Science, Political Economy
- ANNA BELLE JENKS, *Zürich, Switzerland.*
A. B. Wellesley College 1890
Latin, German
- PRESCOTT FORD JERNEGAN, *Middletown, Ct.*
A. B. Brown University 1889; B. D. Newton Theological Institution 1892
Philosophy, Ethics
- EDGAR MANN JOHNSON, *Poquonock, Ct.*
A. B. Brown University 1893
German, French
- ARTHUR JOSEPH LLEWELLYN, *Kenwood, Cal.*
A. B. Brown University 1893
Philosophy, English
- HORACE MCFARLAND, *Portland, Me.*
B. P. Brown University 1892
Anthropology, Geology
- SETH PADELFORD REMINGTON, *Baltimore, Md.*
A. B. Brown University 1894
History, Roman Law
- HERBERT HOWARD RICE, 221 Columbus Ave., *Boston, Ms.*
A. B. Brown University 1892
Political Economy, History
- ARTHUR W. RIDER, 6 Barnard Park, *Los Angeles, Cal.*
A. B. Illinois College 1886
History, Philosophy
- HENRY KALLOCH ROWE, *New London, N. H.*
A. B. Brown University 1892
History, International Law
- GERALD BIRNEY SMITH, *Worcester, Ms.*
A. B. Brown University 1891
Philosophy, History

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- | | |
|--|------------------------------------|
| DAVID GRANT SMYTH,
A. B. Brown University 1889
Mathematics | <i>Hartford, Ct.</i> |
| MORTON COLLINS STEWART,
B. P. Brown University 1894
German | <i>Quincy, Ill.</i> |
| FRANK ARTHUR UPDIKE,
A. B. Brown University 1893
Political Science, Social Science | <i>Atlanta, Ga.</i> |
| ALFRED REYNOLDS WIGHTMAN,
A. B. Brown University 1893
History, English | <i>Morgan Park, Ill.</i> |
| WILLIAM ALLEN WILBUR,
A. B. Brown University 1888
History, Latin, English | <i>West Bridgewater, Ms.</i> |
| EDGAR LINCOLN WILLARD,
A. B. Brown University 1891
English, Philosophy | <i>No. Attleborough, Ms.</i> |
| FRANK EDWARD WINSOR,
B. P. Brown University 1891; C. E. Brown University 1892 | 93 Lincoln St., <i>Boston, Ms.</i> |
| FANNIE ELIZABETH WOODS,
A. B. Wellesley College 1887
German | <i>Groton, Ms.</i> |

UNDERGRADUATES

SENIOR CLASS

NAME	RESIDENCE	ROOM
Herbert Matthews Adams,	<i>Pawtucket,</i>	University 40.
Scott Adams,	<i>Agawam, Ms.,</i>	Hope 27.
Fred Davis Aldrich,	<i>Webster, Ms.,</i>	University 57.
Eugene Chester Angell,	<i>Delavan, Wis.,</i>	Pease House 21.
George Allen Anthony,	<i>Drownville,</i>	Drownville.
John Clinton Anthony,	<i>Fall River, Ms.,</i>	Slater 3.
George Richard Atha,	<i>Pawtucket,</i>	University 19.
Chester Willard Barrows,	<i>Providence,</i>	Hope 24.
George William Bartlett,	<i>Pawtucket,</i>	Hope 8.
George Phippen Beckford.	<i>Manchester, N. H.,</i>	Hope 32.
Wayland Louis Beers,	<i>Montana, N. J.,</i>	Maxcy House 8.
Oscar Francis Bellows,	<i>Providence,</i>	University 36.
Fred Bement,	<i>Suffield, Ct.,</i>	Hope 25.
James Davis Bennett,	<i>Hope Valley,</i>	University 21.
Norman North Bishop,	<i>Lawrence, Ms.,</i>	University 30.
John Eloy Boodin,	<i>Minneapolis, Minn.,</i>	Pawtucket.
William Arthur Burt,	<i>Providence,</i>	236 Friendship St.
William Walter Bustard,	<i>Paterson, N. J.,</i>	Hope 10.
John Weston Butler,	<i>East Greenwich,</i>	East Greenwich.
Walter Guyton Cady,	<i>Providence,</i>	Slater 6.
Frederick Otis Clapp,	<i>Providence,</i>	11 Bridgham St.
Theron Clark,	<i>Colchester, Ct.,</i>	University 30.
Raymond Capron Cook,	<i>Woonsocket,</i>	Hope 40.
Henry Elliott Cooper,	<i>Pawtucket,</i>	Slater 7.
Walter Theodore Crosby,	<i>Brockton, Ms.,</i>	Slater 15.

NAME	RESIDENCE	ROOM
Nathaniel Wheaton Dexter,	<i>Pawtucket,</i>	University 40.
Jay Rogers Dickinson,	<i>Beaver Dam, Wis.,</i>	Hope 35.
Samuel White Duncan Jr.,	<i>Brookline, Ms.,</i>	Slater 6.
Stafford Clarence Edwards,	<i>Nanticoke, N. Y.,</i>	177 Bridgham St.
Franklin Davenport Elmer,	<i>West Hartford, Ct.,</i>	Hope 22.
Arthur Llewellyn Eno,	<i>Charlotte, Vt.,</i>	University 57.
Ferdinand Joseph Feeley,	<i>Woonsocket,</i>	Hope 19.
Will Edward Gardner,	<i>Providence,</i>	University 17.
Herve Washington Georgi,	<i>Jamestown, N. Y.,</i>	University 28.
Willard Hubbard Goodwin,	<i>Geneseo, N. Y.,</i>	Hope 6.
George Andrew Gordon,	<i>Worcester, Ms.,</i>	Hope 4.
Howard Marsh Grant,	<i>Providence,</i>	20 Brighton St.
Alexander Emor Harrington,	<i>Johnston,</i>	University 45.
Fred Ellis Horton,	<i>Providence,</i>	31 State St.
Henry Joseph Hoye,	<i>Providence,</i>	Slater 12.
Arthur Johnson Hull,	<i>Monroe, Ct.,</i>	21 Brown St. 8.
Edward Perkins Jastram,	<i>Providence,</i>	Slater 16.
Elisha Tucker Peirce Jenks,	<i>Middleborough, Ms.,</i>	Slater 12.
Fred Lionel Chester Keating,	<i>Providence,</i>	University 19.
Hazen Kimball,	<i>New Market, N. H.,</i>	32 Custom Ho. St.
Elno Dustin Lancey,	<i>Brookline, N. H.,</i>	University 60.
James Lawson,	<i>Jamestown, N. Y.,</i>	University 28.
Arthur Amsden Macurda,	<i>Watertown, Ms.,</i>	Hope 8.
Henry Mahoney,	<i>Providence,</i>	46 Bellevue Ave.
Edward Arthur Maynard,	<i>Burlington, Vt.,</i>	Messer House 1.
William McDonald Jr.,	<i>Albany, N. Y.,</i>	Slater 9.
Philip Talmage McGown,	<i>Amherst, N. H.,</i>	University 60.
Fred Winchester Mears,	<i>Newton Centre, Ms.,</i>	Hope 46.
Lester Meseroll,	<i>New Brunswick, N. J.,</i>	29 Angell St.
William Henry Millington,	<i>Warwick,</i>	Hope 46.
Frank Henry Morris,	<i>Providence,</i>	70 Meeting St.
Charles Jerome O'Connor,	<i>Providence,</i>	187 Camp St.
William Thomas O'Donnell,	<i>Bristol,</i>	University 44.
George Harwood Olney,	<i>Cherry Valley, Ms.,</i>	Slater 17.
Sumner Tingley Packard,	<i>Brockton, Ms.,</i>	Slater 15.

NAME	RESIDENCE	ROOM
Algernon Wait Putnam,	<i>S. Lyndeboro, N. H.</i>	Maxcy House 3.
Fred Arthur Robinson,	<i>Greenville, N. H.</i> ,	Hope 28.
Edward Armington Sammis,	<i>Johnston,</i>	University 45.
Dallas Lore Sharp,	<i>Bridgton, N. J.</i> ,	21 Brown St 9.
Edwin Angell Skinner,	<i>Bristol,</i>	Hope 26.
Henry Bennett Slade,	<i>Providence,</i>	Hope 27.
Frank Warren Sleeper,	<i>Fr'klin Falls, N. H.</i> ,	Hope 18.
Frederick Slocum,	<i>New Bedford, Ms.</i> ,	Hope 11.
Frederick Eugene Steere,	<i>Johnston,</i>	University 50.
Allan Prescott Stevens,	<i>Bristol,</i>	21 Brown St. 6.
Roy Walter Sumner,	<i>Worcester, Ms.</i> ,	Slater 7.
George Henry Sweet,	<i>Fall River, Ms.</i> ,	Hope 22.
John Campbell Swift,	<i>New Bedford, Ms.</i> ,	Hope 11.
Lucien Edward Taylor,	<i>Providence,</i>	University 17.
Frederick Everett Thompson,	<i>Bangor, Me.</i> ,	Pease House 12.
John Avery Tillinghast,	<i>Pawtucket,</i>	Pawtucket.
Edgar Luther Tinkham,	<i>Providence,</i>	100 Courtland St.
Amasa Rand'll Tourt'lot Truex,	<i>Binghampton, N. Y.</i>	Messer House 11.
Richard Miner Vaughan,	<i>Bangor, Wis.</i> ,	29 Angell St.
Charles Harold Walling,	<i>Providence,</i>	8 Adelaide Ave.
Francis Willis Wamsley,	<i>Bridgton, N. J.</i> ,	R. I. Hall.
John Franklin Watts,	<i>Lynn, Ms.</i> ,	21 Brown St. 12.
Harry Clifford Whipple,	<i>Providence,</i>	Slater 3.
Paul Maurice White,	<i>Woonsocket,</i>	Hope 40.
Hobart Augustus Whitman,	<i>Worcester, Ms.</i> ,	Slater 4.
Benjamin Williams,	<i>Jackson, Mich.</i> ,	Hope 38.
Eugene Crawford Williams,	<i>Pawtucket,</i>	Pawtucket.
William Frederick Wilson,	<i>Somerset, Ms.</i> ,	21 Brown St. 12.
Louis Victor Campbell Winter,	<i>Staten Island, N. Y.</i> ,	University 12.
Peter Clark Wright,	<i>Waldo, Wis.</i> ,	29 Angell St.
Walter Cornelius Wyckoff,	<i>Red Bank, N. J.</i> ,	Hope 37.

JUNIOR CLASS

NAME	RESIDENCE	ROOM
John Henry Harlow Alden,	<i>Middleborough, Ms.,</i>	Slater 12.
James Ellis Ames,	<i>Brockton, Ms.,</i>	Hope 17.
Charles Montgomery Angle,	<i>Stroudsburg, Pa.,</i>	Hope 30.
Carroll Harry Ash,	<i>Lisbon, N. H.,</i>	Messer House 16.
Justin Homer Bacon,	<i>Bellows Falls, Vt.,</i>	Messer House 16.
Allen Buell Bicknell,	<i>Providence,</i>	Hope 17.
William Carpenter Bliss,	<i>East Providence,</i>	19 College St.
Charles Allen Boyd,	<i>Woodbury, Ct.,</i>	Messer House 16.
Edward Everett Bucklin,	<i>Providence,</i>	162 Clifford St.
George Saunders Bullock Jr.,	<i>Warren,</i>	University 16.
Joseph Richard Bullock Jr.,	<i>Providence,</i>	30 Lockwood St.
Champlin Burrage,	<i>Portland, Me.,</i>	Hope 5.
Arthur Deerin Call,	<i>Cortland, N. Y.,</i>	University 16.
Lewis Marsh Carr,	<i>Alton, Ill.,</i>	101 Williams St.
George White Chipman,	<i>Wareham, Ms.,</i>	21 Brown St. 5.
Chester Stanley Churchill,	<i>Whitman, Ms.,</i>	Hope 2.
Samuel Belden Churchill,	<i>Pittsfield, Ms.,</i>	University 28.
George Ellett Coghill,	<i>Roseville, Ill.,</i>	Pease House 21.
Robert Harvey Day,	<i>Providence,</i>	Hope 18.
Charles Frederick Deacon,	<i>Pawtucket,</i>	University 21.
Leon Hayes Denison,	<i>Deep River, Ct.,</i>	Slater 8.
Horace Paul Dorman,	<i>Salem, N. J.,</i>	Hope 30.
Gasherie De Witt Dowling,	<i>Philadelphia, Pa.,</i>	University 19.
Robert William Drawbridge,	<i>Middleton, N. H.,</i>	Hope 27.
Charles Reginald Easton,	<i>Pawtucket,</i>	27 Hawes St.
John Blair Edwards,	<i>Upper Alton, Ill.,</i>	101 Williams St.

NAME	RESIDENCE	ROOM
Burton Sanderson Flagg,	<i>Littleton, Ms.,</i>	Hope 38.
Charles Jay Foscett,	<i>Utica, N. Y.,</i>	19 Angell St.
Theodore Clyde Foster,	<i>Providence,</i>	University 58.
George Frederick Frost,	<i>Hyde Park, Ms.,</i>	University 28.
Clarence Mason Gallup,	<i>Norwich, Ct.,</i>	University 51.
Irving Henry Gamwell,	<i>Holliston, Ms.,</i>	Hope 13.
Seth Ashley Gibson,	<i>Providence,</i>	Hope 25.
George Francis Green,	<i>Fall River, Ms.,</i>	Slater 19.
Ronald Conrad Green,	<i>Providence,</i>	14 John St.
Harry Sylvester Greene,	<i>Woonsocket,</i>	Hope 19.
Carleton Hale,	<i>Providence,</i>	Hope 39.
Herbert Faulkner Hill,	<i>Warren, Ms.,</i>	Pease House 12.
George Clarke Hinckley,	<i>Providence,</i>	89 Waterman St.
Lester Carl Holmberg,	<i>Campello, Ms.,</i>	Slater 3.
George Hopkinson,	<i>Perkinsville, Vt.,</i>	Messer House 14.
Herbert Bradford Horton,	<i>East Providence,</i>	Hope 29.
Daniel Mansfield Hoyt,	<i>Minneapolis, Minn.,</i>	21 Brown St. 4.
Gardner Kirk Hudson,	<i>Fitchburg, Ms.,</i>	Hope 8.
John Mercer Hunt,	<i>Salem, N. J.,</i>	Messer House 13.
Henry Felton Huse,	<i>Boston, Ms.,</i>	University 55.
Marcus Wilson Jernegan,	<i>Edgartown. Ms.,</i>	Messer House 5.
Frederick Augustus Jones,	<i>Bl'k Riv. Falls, Wis.,</i>	Messer House 8.
Frederick William Jones,	<i>Worcester, Ms.,</i>	University 50.
William Augustine Jones,	<i>Providence,</i>	Slater 2.
Alvan Alden Kempton,	<i>Newport, N. H.,</i>	Hope 28.
William Herbert Kenerson,	<i>Providence,</i>	Slater 19.
Howard Day Kenyon,	<i>Pawtucket,</i>	University 31.
Herbert Bowman Lang,	<i>Andover, Ms.,</i>	Slater 6.
Abram LeGrand,	<i>Milwaukee, Wis.,</i>	20 Wheaton St.
John Bosworth Lewis,	<i>Providence.</i>	University 27.
Edward Allen Locke,	<i>Whitman, Ms.,</i>	Hope 2.
Harry Saxton Mabie,	<i>Boston, Ms.,</i>	Messer House 8.
Ernest Hoxsie Mathewson,	<i>Bellingham, Ms.,</i>	185 Williams St.
George Arnold Matteson,	<i>Providence,</i>	University 18.
William Alexander McAuslan,	<i>Providence,</i>	Slater 13.

NAME	RESIDENCE	ROOM
Stewart Alfred McComber,	<i>Globe Village, Ms.,</i>	Pease House 10.
Alfred Bertrand Meacham,	<i>Stoneham, Ms.,</i>	Hope 23.
Theodore Clarkson Merrill,	<i>Providence,</i>	Hope 6.
Haven Metcalf,	<i>Winthrop, Me.,</i>	Pease House 6.
William Francis Miner,	<i>East Providence.</i>	East Providence.
Wesley Elias Monk,	<i>Campello, Ms.,</i>	Slater 20.
Albert Swift Morse,	<i>Fairhaven, Ms.,</i>	Hope 25.
Edward Baily Morse,	<i>Grafton, Ms.,</i>	University 10.
Anthony Ambrose Mulligan,	<i>Woonsocket,</i>	University 20.
John Samuel Murdock,	<i>Moosup, Ct.,</i>	Messer House 10.
Albert Rodman Nichols,	<i>Providence,</i>	Hope 1.
Charles Palmer Nott,	<i>Burlington, Vt.,</i>	112 George St.
William Pierce Otis,	<i>Providence,</i>	University 41.
Jesse Bell Owen,	<i>Stonington, Ill.,</i>	101 Williams St.
Ernest Victor Page,	<i>Johnston,</i>	University 45.
Edward Stark Parker,	<i>Providence,</i>	216 Benefit St.
George Lincoln Parker,	<i>Fitchburg, Ms.,</i>	Hope 36.
Robert Simmons Phillips,	<i>New Bedford, Ms.,</i>	21 Brown St. 6.
Tristram Cleveland Phinney,	<i>Edgartown, Ms.,</i>	Messer House 5.
William Edward Price,	<i>Brockton, Ms.,</i>	Hope 44.
Eimer Jeremiah Rathbun,	<i>Noose Neck,</i>	Messer House 11.
James Helme Rickard Jr.,	<i>Woonsocket,</i>	Messer House 7.
Edward Sanford Roberts,	<i>Providence,</i>	University 17.
Edward North Robinson,	<i>Danvers, Ms.,</i>	Hope 43.
Will Austin Robinson,	<i>E. Gloucester, Ms.,</i>	257 Benefit St.
Henry Hall Rockwell,	<i>Chicago, Ill.,</i>	University 58.
James Wylie Ross,	<i>Snider, Tenn.,</i>	Pease House 3.
William Webster Rugg,	<i>Perkinsville, Vt.,</i>	Hope 14.
Robert Clark Sanger,	<i>Franklin Falls, N. H.</i>	Pease House 22.
William Briggs Savery,	<i>Attleborough, Ms.,</i>	Attleborough.
Frank Edward Smith,	<i>Brockton, Ms.,</i>	University 34.
Henry Lawrence Smith,	<i>Providence,</i>	242 Wayland Ave.
Howard Revere Smith,	<i>Portsmouth, N. H.,</i>	51 Angell St.
Jesse Fowler Smith,	<i>East Hartford, Ct.,</i>	Hope 21.
John William Smith,	<i>Providence,</i>	Hope 22.

NAME	RESIDENCE	ROOM
Charles Sumner Stedman,	<i>Albany, N. Y.,</i>	Hope 23.
William Harris Steere,	<i>Providence,</i>	Hope 9.
Allison Stone,	<i>Providence,</i>	24 Linden St.
Arthur Crowell Stone,	<i>Providence,</i>	University 41.
Samuel Richmond Stratton,	<i>Salem, N. J.,</i>	Messer House 13.
Mason Martin Swan,	<i>Belleville, N. Y.,</i>	Messer House 1.
Harry English Taylor,	<i>Englishtown, N. J.,</i>	Hope 6.
Harry Luke Thompson,	<i>East Providence,</i>	18 Summit St.
James Humphrey Thurston,	<i>Providence,</i>	64 Congdon St.
George Bickford Van Doren,	<i>Chaumont, N. Y.,</i>	Hope 34.
Joseph Canfield Van Doren,	<i>Chaumont, N. Y.,</i>	Hope 34.
Sumner Redway Vinton,	<i>Rangoon, Burma,</i>	54 Willow St.
Robert Churchill Vose,	<i>Providence,</i>	21 Angell St.
Everett Lewis Walling,	<i>Woonsocket,</i>	Hope 37.
Henry Herbert Waterman,	<i>Providence,</i>	71 Rugby St.
Robert Young,	<i>Bristol,</i>	University 44.

SOPHOMORE CLASS

NAME	RESIDENCE	ROOM
Samuel Adams,	<i>West Haven, Vt.,</i>	University 31.
Willis Wood Aldrich,	<i>Wethersfield Ctr., Vt.,</i>	University 31.
Arthur Moulton Allen,	<i>Providence,</i>	Hope 44.
Charles Henry Allen,	<i>Needham, Ms.,</i>	Messer House 2.
Chester Willard Allen,	<i>East Boston, Ms.,</i>	Hope 3.
Horatio Cushing Allen,	<i>Marion, Ms.,</i>	Hope 22.
Raymond Cleveland Allen,	<i>Manchester, Ms.,</i>	Pease House 20.
Seril Clemence Armstrong,	<i>Woonsocket,</i>	Hope 15.
Fred Atwell Arnold,	<i>Pawtucket,</i>	21 Brown St. 10.
Martin Hollis Arnold,	<i>Providence,</i>	41 Chapin Ave.
James Hope Arthur,	<i>Providence,</i>	Slater 13.
Arthur Francis Ballou,	<i>Woonsocket,</i>	Hope 15.
William John Ballou,	<i>Wallingford, Vt.,</i>	21 Brown St. 11.
Waldo Reynolds Bartlett,	<i>Burrillville,</i>	Hope 19.
Roscoe Hosmer Belknap,	<i>Framingham, Ms.,</i>	Hope 31.
Henry Wells Newell Bennett,	<i>Manchester, N. H.,</i>	Hope 32.
Charles Knowles Bidwell,	<i>Warren Pr Mills N J</i>	University 28.
Horace Greeley Bissell,	<i>Apponaug,</i>	University 28.
George Miles Bliss,	<i>East Providence,</i>	19 College St.
Fred Emerson Briggs,	<i>Attleborough, Ms.,</i>	University 19.
Howard Bowen Briggs,	<i>Providence,</i>	University 48.
Edwin Cornelius Broome,	<i>Central Falls,</i>	Hope 11.
John Howard Brown,	<i>Westerly,</i>	Hope 3.
Clarence Rhodes Budlong,	<i>Providence,</i>	189 Governor St.
Paul Revere Bullard,	<i>Waltham, Ms.,</i>	37 Creighton St.

NAME	RESIDENCE	ROOM
Alfred Walker Bullock,	<i>Pawtucket,</i>	21 Brown St. 10.
Arthur Hale Chamberlain,	<i>Portland, Me.,</i>	Hope 26.
Allen Herbert Chase,	<i>Providence,</i>	University 18.
Marion McAllister Clarke,	<i>Newport,</i>	Hope 39.
Charles Eugene Clift,	<i>Middle't'n Sp'gs, Vt.,</i>	Maxcy House 3.
Everett Colby,	<i>New York, N. Y.,</i>	Slater 10.
William Coleman,	<i>Valdosta, Ga.,</i>	72 John St.
Elijah William Collins,	<i>Pawtucket,</i>	Slater 6.
Maurice Howe Cooke,	<i>Providence,</i>	Hope 48.
James Parker Coombs,	<i>Pleasant Dale, Me.,</i>	21 Brown St. 13.
Arthur Maxson Cottrell,	<i>Westerly,</i>	Hope 7.
George Rice Coughlan,	<i>Adams, N. Y.,</i>	Hope 33.
John Harrington Cox,	<i>Western Sp'gs, Ill.,</i>	Hope 13.
Eben Creighton,	<i>Thomaston, Me.,</i>	Messer House 3.
Lefferts Mason Dashiell,	<i>Lakewood, N. J.,</i>	Slater 11.
William Fitz Donovan,	<i>Clifton Forge, Va.,</i>	Hope 12.
Frank Davol Easterbrooks,	<i>Warren,</i>	Maxcy House 5.
Charles Francis Eddy,	<i>Lime Rock,</i>	Messer House 12.
Robert Stephen Emerson,	<i>Pawtucket,</i>	21 Brown St. 10.
William Milnes Faux,	<i>Elizabeth, N. J.,</i>	33 Jenkins St.
Carl Russell Fish,	<i>Providence,</i>	18 Cabot St.
Timothy Aloysius Fitzgerald,	<i>Millville, Ms.,</i>	Messer House 2.
Frank Ballou Follett,	<i>Ashton,</i>	Messer House 12.
Albert Orson Foster,	<i>Utica, N. Y.,</i>	University 49.
George Stephenson Fox,	<i>Fall River, Ms.,</i>	21 Brown St. 8.
George Wilsey Gates,	<i>Otego, N. Y.,</i>	Hope 9.
Will Friend Geisler,	<i>Holbrook, Ms.,</i>	Pease House 11.
Charles Wilson Goodwin,	<i>Providence,</i>	369 Weybosset St.
Murray West Gordon,	<i>Bethlehem, N. H.,</i>	Pease House 22.
Eric Hastings Green,	<i>Providence,</i>	14 John St.
Herlwyn Ruggles Green,	<i>Providence,</i>	14 John St.
Daniel Myron Greene,	<i>East Greenwich,</i>	East Greenwich.
Albert Angus Griffin,	<i>Franklin Falls, N. H.,</i>	21 Brown St. 7.
Russell Grinnell,	<i>New Bedford, Ms.,</i>	University 25.
Sanford Keith Gurney,	<i>Brockton, Ms.,</i>	Slater 14.

NAME	RESIDENCE	ROOM
Frank Lawrence Hall,	<i>Bristol, Ct.,</i>	University 48.
Augustin Powell Hamlin,	<i>Newport,</i>	Hope 33.
Arthur Murray Hancock,	<i>Franklin Falls, N. H.</i>	Hope 43.
Albert Henry Harlow,	<i>Whitman, Ms.,</i>	Maxcy House 6.
Charles Augustus Harris,	<i>Fairhaven, Ms.,</i>	Hope 47.
Ralph Bertram Harris,	<i>Salem, Ms.,</i>	Slater 5.
William Andrew Harris Jr.,	<i>Providence,</i>	140 Prospect St.
Joseph Charles Hartwell,	<i>Providence,</i>	Slater 4.
George Coggeshall Hatch Jr.,	<i>New Bedford, Ms.,</i>	Hope 29.
Russell Hathaway Jr.,	<i>Fairhaven, Ms.,</i>	Hope 47.
Daniel Franklin Holmes,	<i>Providence,</i>	16 Federal St.
Leonard Wheaton Horton,	<i>Providence,</i>	47 Wilson St.
Sidney Daniels Humphrey,	<i>Providence,</i>	Hope 48.
Joseph Martin Jenckes,	<i>Providence.</i>	Hope 14.
Frank Oscar Jones,	<i>Providence,</i>	University 16.
George Potter King,	<i>Arlington,</i>	Hope 21.
Howard Frost King,	<i>Thompsonville, Ct.,</i>	University 51.
John Joseph Lace Jr.,	<i>Pascoag,</i>	Messer House 9.
William Setchell Learned,	<i>Berkeley, Cal.,</i>	6 Camp St.
Charles Ervin Lewis,	<i>Yarmouth, N. S.,</i>	University 13.
Edgar Alexander Lewis,	<i>Belleville, N. Y.,</i>	Messer House 9.
Frank Horton Lewis,	<i>Providence,</i>	Hope 3.
Clarence Hart Lingham,	<i>Boston, Ms.,</i>	Hope 10.
Benj. Thomson Livingston,	<i>Pawtucket,</i>	University 57.
Clifton Welles Loveland,	<i>Providence,</i>	369 Weybosset St.
Marcus Ward Lyon Jr.,	<i>Newark, N. J.,</i>	17 Beacon Ave.
Herbert Allen Matteson,	<i>Anthony,</i>	Hope 5.
William Vincent McCready,	<i>Providence,</i>	Hope 36.
Arthur Milton McCrillis,	<i>Providence,</i>	University 48.
Marcus Harold Merchant,	<i>Warren.</i>	Maxcy House 5.
Isaac Butts Merriman,	<i>Nayatt Point,</i>	University 22.
Howard Tucker Metcalf,	<i>Providence,</i>	Hope 41.
Charles Dunsmore Millard,	<i>Tarrytown, N. Y.,</i>	Hope 12.
Herbert Cleveland Miller,	<i>Amherst, Ms.,</i>	Messer House 4.
George Leland Miner,	<i>Providence,</i>	University 17.

NAME	RESIDENCE	ROOM
Francis Dionysus Monahan,	<i>Lynn, Ms.,</i>	Pease House 4.
James Alpheus Moore,	<i>Deep River, Ct.,</i>	Slater 4.
Philip Wilfred Travis Moxom,	<i>Springfield, Ms.,</i>	Hope 41.
Jas. Roberts Decrevi Oldham,	<i>Woonsocket,</i>	Hope 15.
James Orin Otis,	<i>Providence,</i>	University 41.
Charles Dexter Owen Jr.,	<i>Providence,</i>	120 Waterman St.
Thomas Edward Owens,	<i>Philadelphia, Pa.,</i>	72 John St.
Chas. Leslie Fairbanks Paull,	<i>Somerset, Ms.,</i>	Messer House 2.
William Burgess Peck,	<i>Providence,</i>	209 Point St.
William Torrey Peckham,	<i>Providence,</i>	University 26.
Fordyce Dexter Perkins,	<i>Portland, Me.,</i>	Messer House 4.
Harold Wilder Perkins,	<i>Woonsocket,</i>	University 32.
John Pettibone,	<i>Bristol, Ct.,</i>	Pease House 14.
Adelbert Phinney Jr.,	<i>Edgartown, Ms.,</i>	Messer House 5.
John Estey Warner Piddock,	<i>Hartford, Ct.,</i>	Hope 42.
Clinton Everett Potter,	<i>Olneyville,</i>	Olneyville.
William Gallup Randall,	<i>Santa Cruz, Cal.,</i>	Hope 16.
George Washington Rapson,	<i>Whitman, Ms.,</i>	Hope 24.
Arvid Reuterdaahl,	<i>Providence,</i>	313 Willard Ave.
Francis Bullard Richards,	<i>Providence,</i>	Slater 7.
Joseph Chandler Robbins,	<i>Concord, N. H.,</i>	Hope 14.
John Davison Rockefeller Jr.,	<i>New York, N. Y.,</i>	Slater 11.
Turner Rollinson,	<i>Providence,</i>	25 Delaine St.
Francis Augustus Rugg,	<i>Perkinsville, Vt.,</i>	Hope 14.
Wilbur Allen Scott,	<i>Providence,</i>	Slater 3.
Frank Widmer Senior,	<i>Woonsocket,</i>	Hope 15.
Walter Cyrus Sherman,	<i>East Dover, Vt.,</i>	21 Brown St. 11.
Harry Lodowich Shippee,	<i>East Greenwich,</i>	East Greenwich.
George Thurston Spicer,	<i>Providence,</i>	371 Broadway.
Harris Elwood Starr,	<i>Providence,</i>	Hope 24.
Hiram Austin Stearns,	<i>Manchester, N. H.,</i>	Hope 46.
Edward Delano Stewart,	<i>Mystic, Ct.,</i>	Hope 45.
William Henry Thornley Jr.,	<i>Pawtucket,</i>	Hope 4.
Walter Roy Tourtellot,	<i>Olneyville,</i>	Olneyville.
Charles Wayland Towne,	<i>Auburn, Me.,</i>	Slater 17.

NAME	RESIDENCE	ROOM
James Tucker Jr.,	<i>Providence,</i>	Slater 15.
Jos. Whittemore Sweet Tucker,	<i>Edgewood,</i>	University 50.
Ernest Edward Tyzzer,	<i>Wakefield, Ms..</i>	Hope 31.
Howard Harris Utley,	<i>Providence,</i>	University 12.
Howard Mason Van Gelder,	<i>Catskill, N. Y.,</i>	Slater 19.
Gregory Dexter Walcott.	<i>Warren,</i>	Hope 4.
Byron Sprague Watson,	<i>Providence,</i>	Hope 12.
Frank Elbert Watson,	<i>Springfield, Ms.,</i>	51 Angell St.
Frank Rowland Wheeler,	<i>Mystic, Ct.,</i>	Hope 21.
Guy Montrose Whipple,	<i>Danvers, Ms.,</i>	University 51.
Charles Ernest White,	<i>Bellows Falls, Vt.,</i>	Pease House 14.
David Mitchell White.	<i>Worcester, Ms.,</i>	Hope 42.
Burtis Erwin Whittaker,	<i>Sandy Creek, N. Y.,</i>	Pease House 15.
Roswell Storrs Wilcox,	<i>Providence,</i>	Hope 4.

FRESHMAN CLASS

NAME	RESIDENCE	ROOM
Edward Lawrence Adams,	<i>Ashland, Ms.,</i>	22 Lloyd St.
Paul Edwin Aldrich,	<i>Providence,</i>	344 Benefit St.
James Sidney Allen Jr.,	<i>E. Bridgewater, Ms.,</i>	University 33.
Audubon Arms,	<i>East Greenwich,</i>	East Greenwich.
Frederick William Arnold Jr.,	<i>Providence,</i>	159 Waterman St.
Harlan Judson Ballentine,	<i>Oakland, Cal.,</i>	29 Angell St.
Warren James Ballou,	<i>Cumberland Hill,</i>	Hope 16.
Richard Jackson Barker Jr.,	<i>Warren,</i>	Hope 18.
Albert Armington Barrows,	<i>Providence,</i>	38 Olive St.
Dwight Kellogg Bartlett,	<i>Providence,</i>	12 Jackson St.
Oren Nelson Bean,	<i>Brentwood, N. H.,</i>	8 Angell Place.
Charles Everett Bosworth,	<i>Warren,</i>	University 57.
Pliny Arthur Boyd,	<i>Woodbury, Ct.,</i>	Messer House 15.
Eugene Mason Boyden,	<i>Providence,</i>	33 Jenkins St.
Charles Bradley Jr.,	<i>Providence,</i>	Slater 10.
Stuart Francis Brady,	<i>Dover, Me.,</i>	Pease House 7.
Arthur Mason Briggs,	<i>W. Mansfield, Ms.,</i>	8 Angell Place.
Arthur Palmer Briggs,	<i>Dighton, Ms.,</i>	101 Williams St.
Matthew Williamson Budlong,	<i>Providence,</i>	604 Westminster St.
William Henry Buffum,	<i>Providence,</i>	190 Hope St.
Thomas Jayne Burrage,	<i>Portland, Me.,</i>	Hope 5.
William Hamlin Cady,	<i>Providence,</i>	127 Power St.
Hazen Albert Calhoun,	<i>Cambridgeport, Ms.,</i>	101 Williams St.
Charles Carroll,	<i>Providence,</i>	133 Tockwotten St.

NAME	RESIDENCE	ROOM
Willard Lacey Case,	<i>Plainfield, N. J.,</i>	University 47.
George William Chaplin,	<i>Pawtucket,</i>	21 Brown St. 10.
Melvin Francis Church,	<i>Drownville,</i>	Drownville.
John Winthrop Comey,	<i>New York, N. Y.,</i>	Slater 5.
George Edgar Congdon Jr.,	<i>Cranston,</i>	Cranston.
Rufus Edward Corlew,	<i>Cortland, N. Y.,</i>	Pease House 2.
Gardner Cornett,	<i>Providence,</i>	Slater 10.
Frank Goodwin Crane,	<i>Toledo, O.,</i>	University 33.
Andrew Robeson Currier,	<i>Valley Falls,</i>	Hope 19.
Clinton Harvey Currier,	<i>Manchester, N. H.,</i>	684 Westminster St.
Earnest Lincoln Darling,	<i>Providence,</i>	97 Jewett St.
Theodore Everett Dexter,	<i>Central Falls,</i>	University 51.
George Leonard Drowne,	<i>Providence,</i>	25 Pitman St.
Henry Dean Church Dubois,	<i>Providence,</i>	67 Pemberton St.
Chas. De Marcus Payne Eaton,	<i>Providence,</i>	University 59.
Howard Wayland Farnum,	<i>Chepatchet,</i>	Hope 9.
Joseph Henry Farrell,	<i>Pawtucket,</i>	Pawtucket.
John Kelsey Fenner,	<i>Johnston,</i>	Hope 16.
John Burnham Ferguson,	<i>Providence,</i>	137 Beacon Ave.
Marsden Rhodes Foster,	<i>Boston, Ms.,</i>	Pease House 11.
Ertelle Elwell Franklin,	<i>Tioga Center, N. Y.,</i>	Pease House 7.
Allèn Bateman Freeman Jr.,	<i>Courtland, N. Y.,</i>	Pease House 2.
Robert Jaquith Fuller,	<i>E. Westm'rel'd, N.H.</i>	21 Brown St. 11.
David Louis Fultz,	<i>Stanton, Va.,</i>	Maxcy House 4.
John Ashley Gammons,	<i>New Bedford, Ms.,</i>	Pease House 13.
George Anthony Gaskill,	<i>Worcester, Ms.,</i>	University 50.
Charles Henry George 2d,	<i>Providence,</i>	University 43.
Louis Napoleon Gobeille,	<i>Woonsocket,</i>	Hope 32.
Howard Bowen Gorham,	<i>Providence,</i>	236 Knight St.
Russell Chaffee Graves,	<i>Bennington, Vt.,</i>	University 43.
Warren Earl Greene,	<i>Providence,</i>	475 Elmwood Ave.
Arthur Moses Greenwood,	<i>Ashburnham, Ms.,</i>	Hope 48.
William Taylor Grinnell Jr.,	<i>Providence,</i>	University 25.
Arthur Leon Grover,	<i>Stroudwater, Me.,</i>	Pease House 7.
Walter Amer Guile 2d,	<i>Providence.</i>	Hope 17.

NAME	RESIDENCE	ROOM
Wilford Jay Gunn,	<i>Turner's Falls, Ms.,</i>	Maxcy House 2.
Edward Stockbridge Gushee,	<i>Cambridge, Ms.,</i>	Hope 20.
Georgie Mackie Gustin,	<i>Attleborough, Ms.,</i>	Attleborough.
William Henry Hand,	<i>Boston, Ms.,</i>	19 Angell St.
Ephraim Le Roy Hart,	<i>East Greenwich,</i>	East Greenwich.
Ratcliffe George Earl Hicks,	<i>Providence,</i>	Hope 24.
James Henry Higgins,	<i>Pawtucket,</i>	Hope 46.
Frank Edward Hopkins,	<i>Essex Junction, Vt.,</i>	Pease House 4.
Arthur George Host,	<i>Providence,</i>	12 Potters Ave.
Edward Feiling Hull,	<i>Millbury, Ms.,</i>	Pease House 5.
Harry Curtis Hull,	<i>Millbury, Ms.,</i>	Pease House 5.
Ernest Morrill Hunt,	<i>Lakeport, N. H.,</i>	Maxcy House 6.
Richard Rallston Hunter,	<i>Mamoroneck, N. Y.,</i>	Slater 17.
Ralph Kingsley Hyde,	<i>Providence,</i>	250 Charles St.
George Francis Jenks,	<i>Shelburne Falls, Ms.,</i>	Slater 18.
Benjamin Dunn Jones,	<i>Providence,</i>	University 59.
Luke Joseph Kavanaugh,	<i>W. Springfield, Ms.,</i>	Pease House A.
John Henry Kelaghan,	<i>Pawtucket,</i>	Hope 46.
Walter Dunn Kilvert,	<i>Chillicothe, O.,</i>	122 Hope St.
Simon Sayles Lapham Jr.,	<i>Providence,</i>	Hope 26.
William Lauder,	<i>So. Norwalk, Ct.,</i>	Maxcy House 4.
Ernest Carleton Mains,	<i>Danvers, Ms.,</i>	Pease House 8.
Charles Atwood Marsh,	<i>Lynn, Ms.,</i>	Pease House 16.
Lester Benjamin Mathewson,	<i>Providence,</i>	46 Carroll St.
Frank King Mathiews,	<i>Jersey City, N. J.,</i>	University 47.
Clifford Elmore McGlauflin,	<i>Mapleton, Me.,</i>	Pease House 3.
George Alfred Mellen,	<i>Lawrence, Ms.,</i>	University 54.
Lester Walton Millman,	<i>Pawtucket,</i>	21 Brown St. 5.
George Langley Mills Mitchell,	<i>Providence,</i>	University 30.
George Winfield Morris,	<i>Johnston,</i>	Hope 16.
Leo Francois Nadeau,	<i>East Providence,</i>	Riverside.
Dionysius Francis O'Brien,	<i>No. Brookfield, Ms.,</i>	Maxcy House 7.
Elam Ward Olney,	<i>Providence,</i>	University 26.
John Fiske Paine,	<i>Providence,</i>	11 Franklin St.
Earl Carldor Pierce,	<i>Woonsocket,</i>	Hope 32

NAME	RESIDENCE	ROOM
Emory Lyon Place,	<i>Providence,</i>	21 Anthony Ave.
Lewis Tew Place,	<i>Providence,</i>	Slater 16.
James Rolland Potter,	<i>Bordentown, N. J.,</i>	University 59.
William King Potter Jr.,	<i>Edgewood,</i>	Shaw Ave.
Roland Cornell Powers,	<i>Providence,</i>	Slater 12.
Frank Albert Quimby,	<i>Hills Grove,</i>	Pease House 23.
David Wallace Reeves, Jr.,	<i>Providence,</i>	University 30.
Egbert Ellis Rhodes,	<i>Attleborough, Ms.,</i>	University 51.
John Joseph Riley,	<i>W. Springfield, Ms.,</i>	Pease House A.
Albert Lewis Rodman,	<i>Lafayette,</i>	Hope 7.
Ernest Clinton Rowell,	<i>N. Laurence, N. Y.,</i>	684 Westminster St.
William Edward Sarle,	<i>Warwick,</i>	Warwick.
Woodbury John Schribner,	<i>Epsom, N. H.,</i>	684 Westminster St.
Charles Mickle Sherman,	<i>Englishtown, N. J.,</i>	University 59.
George Herbert Sherwood,	<i>Johnston,</i>	Johnston.
William Otis Shurrocks,	<i>Providence,</i>	Hope 2.
Fred Hubbard Sibley,	<i>West Sutton, Ms.,</i>	50 Waterman St.
William Adams Slade,	<i>Providence,</i>	Hope 27.
Fred Andrew Smart,	<i>S. Portland, Me.,</i>	Maxcy House 2.
Thomas Ellwood Steere.	<i>Providence,</i>	84 Waterman St.
Franklin Keith Taft,	<i>Providence,</i>	102 Waterman St.
John Remington Talcott,	<i>New London, Ct.,</i>	16 Barclay St.
Joseph Taylor,	<i>Malton, Eng.,</i>	Messer House 2.
Edward Thayer Jr.,	<i>Pawtucket,</i>	Pawtucket.
Louis Albion Thomas,	<i>Brunswick, Me.,</i>	29 Angell St.
Millett Taylor Thompson,	<i>Providence,</i>	114 Bowen St.
Andrew Samuel Thomson,	<i>Alex'ndria Bay, N. Y.</i>	Pease House A.
David Elliot Tobias,	<i>Narragansett Pier,</i>	Hope 45.
Harold Heathwood Totten,	<i>N. Attleborough, Ms.,</i>	Hope 1.
George Hussey Tracy,	<i>Nantucket, Ms.,</i>	398 Washington St.
George Francis Troy,	<i>Providence,</i>	10 Barton St.
Elihu Sanford Tuttle,	<i>Bristol, Ct.,</i>	University 46.
John Willis Upton,	<i>Tyngsboro, Ms.,</i>	Slater 19.
John Robinson Vunk,	<i>Cortland, N. Y.,</i>	Hope 1.
George Edward Walker,	<i>Lawrence, Ms.,</i>	Pease House 4.

NAME	RESIDENCE	ROOM
Stacy Reuben Warburton,	<i>Pawtucket,</i>	University 51.
Hezekiah Church Wardwell,	<i>Bristol,</i>	101 Williams St.
J. Ralph Wellman,	<i>Lawrence, Ms.,</i>	University 54.
John Edmund Wells,	<i>Olneyville,</i>	Olneyville,
Borden Durfee Whiting,	<i>Providence,</i>	Slater 4.
Howell George Wilcox,	<i>Providence,</i>	513 No. Main St.
Willis Allin Wilder,	<i>Bethlehem, N. H.,</i>	Pease House 22.
James Mickel Williams,	<i>Waterville, N. Y.,</i>	101 Williams St.
William Eugene Winchester,	<i>Providence.</i>	23 Hoppin St.
Frank Otis Woodruff,	<i>Needham, Ms.,</i>	Messer House 2.
Robert Purdy Zebley,	<i>Atl'ntic Highlds N. J.</i>	29 Angell St.

SPECIAL STUDENTS

NAME	RESIDENCE	ROOM
John Jerome Franklin Amidon,	<i>Hancock, Ms.,</i>	Maxcy House 9.
Joseph Caldwell Bearse,	<i>Providence,</i>	40 So. Water St.
Jerome Bradford Bliss,	<i>Pawtucket,</i>	Pawtucket.
Henry Manchester Boss Jr.,	<i>Providence,</i>	5 Hammond St.
Thomas Jefferson Brady,	<i>New Bedford, Ms.,</i>	Pease House 5.
Edwin Arnold Bush 2d,	<i>Providence,</i>	78 Arthur Ave.
Frank Lippitt Cady,	<i>Providence,</i>	78 Central St.
Charles Wilbur Cary,	<i>Griswoldville, Ms.,</i>	East Providence.
Frederick Pierce Cole,	<i>Woonsocket,</i>	University 21.
James Aloysius Dunne,	<i>Brooklyn, N. Y.,</i>	University 55.
Benjamin Mumford Earle Jr.,	<i>Providence,</i>	535 Broadway.
John Whitman Emory,	<i>Bridgton, Me.,</i>	21 Brown St. 13.
Frederick Hovey Franklin,	<i>Providence,</i>	70 Somerset St.
Clarence Bertram Gay,	<i>Providence,</i>	101 Williams St.
Collins Millard Graves,	<i>Bennington, Vt.,</i>	University 43.
Charles William Gordon,	<i>Buffalo, N. Y.,</i>	Providence.
George Wheaton Harrington,	<i>Providence,</i>	Hope 23.
Thaddeus Jerome Hayden,	<i>Providence,</i>	10 Congdon St.
Edwin Gale Hurd,	<i>Flint, Mich.,</i>	Providence.
Daniel Joseph Hurley,	<i>Providence,</i>	36 East George St.
Frederick Latimer Jenckes,	<i>Pawtucket,</i>	University 22.
Thomas Kelly,	<i>New Bedford, Ms.,</i>	Pease House 20.
Howard Nelson Kingsford,	<i>Riverside,</i>	Riverside.
Holder Crary Kirby,	<i>New Bedford, Ms.,</i>	Pease House 13.
John Lake,	<i>Bristol,</i>	University 51.
Chauncy Avery Lockwood,	<i>Stamford, Ct.,</i>	Pease House 23.
Walter Jabez Lord,	<i>Worcester, Ms.,</i>	42 Arch St.
Dennis Joseph Lowney,	<i>Providence,</i>	Pease House 5.

NAME	RESIDENCE	ROOM
Robert Fox MacArthur,	<i>New York, N. Y.,</i>	219 Benefit St.
Charles McCarthy,	<i>Brockton, Ms.,</i>	University 34.
George Harris McClellan,	<i>Abilene, Kan.,</i>	Hope 48.
John McManus,	<i>Pawtucket,</i>	Messer House 12.
Francis Wayland Miner,	<i>Providence,</i>	Messer House 2.
Christopher Alex'nd'r Murray,	<i>Pawtucket,</i>	279 Cottage St.
William Warren Orswell,	<i>Pawtucket,</i>	Hope 8.
Alpheus Appleton Packard,	<i>Providence,</i>	115 Angell St.
Charles Willis Park,	<i>Millbury, Ms.,</i>	113 Messer St.
William Edgar Pearse,	<i>Cranston,</i>	21 Brown St. 6.
Edwin Augustus Robinson Jr.,	<i>Attleborough, Ms.,</i>	University 51.
Edward Wadsworth Shead,	<i>Eastport, Me.,</i>	Hope 3.
John Albert Straight,	<i>East Providence,</i>	East Providence.
Henry Travers Summersgill,	<i>Brooklyn, N. Y.,</i>	Hope 44.
Myron Louis Ballou Sweatt,	<i>Woonsocket,</i>	University 32.
Wilfrid Wheeler,	<i>Concord, Ms.,</i>	Pease House 29.
Lewis Gates Whittelsey,	<i>Providence,</i>	76 Sackett St.

WOMEN'S COLLEGE

UNDERGRADUATE STUDENTS WHO ARE REGULAR CANDIDATES
FOR BROWN UNIVERSITY EXAMINATIONS, RECEIVING
UNOFFICIAL INSTRUCTION IN COLLEGE STUDIES

SENIOR CLASS

NAME	RESIDENCE	ROOM
Beatrice Jennie Barker,	<i>Providence,</i>	357 Westminster St.
Isabel Warwick Bliss,	<i>Providence,</i>	235 Waterman St.
Maude Anne Bonner,	<i>Providence,</i>	102 Williams St.
Martha Reynolds Clarke,	<i>Providence,</i>	147 Chestnut St.
Clara Elizabeth Comstock,	<i>Providence,</i>	842 Broad St.
Nettie Serena Goodale,	<i>Pawtucket,</i>	128 M'l Spring Ave.
Emogene Miriam Manning,	<i>Taunton, Ms.,</i>	103 So. Angell St.
Bertha Abby Nichols,	<i>East Greenwich,</i>	East Greenwich.
Grace Church Paull,	<i>Bristol,</i>	Bristol.
Maria Storrs Peck,	<i>Providence,</i>	106 George St.
Elizabeth Robina Peckham,	<i>Bristol,</i>	Bristol.

JUNIOR CLASS

Sarah Jane Bullock,	<i>Pawtucket,</i>	208 East Ave.
Mabelle Alice Caffrey,	<i>Providence,</i>	24 Abbott St.
Grace Mabel Cleveland,	<i>East Providence,</i>	59 Broadway.
Flora May Holt,	<i>Lowell, Ms.,</i>	201 Pleasant St.
Margaret May Landon,	<i>Fairmount, Md.,</i>	66 Fountain St.
Emma Bradford Stanton,	<i>Bristol,</i>	Bristol.
Charlotte Lusanne Tillinghast,	<i>Providence.</i>	108 Angell St.
Florence Josephine Whiting,	<i>Plainville, Ms.,</i>	Plainville.
Edith Holmes Williston,	<i>Providence,</i>	10 Harrison St.

SOPHOMORE CLASS

NAME	RESIDENCE	ROOM
Alice Weeden Austin,	<i>Providence,</i>	1275 Westm'nst'r St.
Josephine Angell Beane,	<i>Johnston,</i>	Johnston.
Martha Shepard Briggs,	<i>Attleborough, Ms.,</i>	Attleborough.
Louise Mary Brough,	<i>Providence,</i>	13 Pomona Ave.
Edith Maria Brown,	<i>Providence,</i>	170 Prospect St.
Mary Arnold Brownell,	<i>Providence,</i>	73 Prospect St.
Florence Potter Case,	<i>Providence,</i>	89 Somerset St.
Nellie Frances Cooke,	<i>Providence,</i>	18 Maple St.
Edna Frances Davis,	<i>Lincoln,</i>	Central Falls.
Ruth Story Devereux,	<i>Manton,</i>	Manton.
Lucy Minerva French,	<i>Southbridge, Ms.,</i>	57 Parade St.
Clara Angella Gomberg,	<i>Providence,</i>	129 Williams St.
Bertha Beatrice Grant,	<i>Providence,</i>	7 Parkis Ave.
Ida Ellis Hawkins,	<i>East Greenwich,</i>	East Greenwich.
Minnie Hannah Hough,	<i>Lonsdale,</i>	Lonsdale.
Sadie Emma McCready,	<i>Providence,</i>	42 Arch St.
Sarah Ethelyn Merrill,	<i>Central Falls,</i>	Central Falls.
Anna Louise Metcalf,	<i>West Upton, Ms.,</i>	87 Congdon St.
Sarah Mabel Osborn,	<i>Warren,</i>	Warren.
Mabel Louise Potter,	<i>Fairhaven, Ms.,</i>	87 Congdon St.
Linda Richardson,	<i>No. Attleboro', Ms.,</i>	No. Attleborough.
Eda May Round,	<i>Providence,</i>	139 Superior St.
Ruth Smith Roundy,	<i>Beverly, Ms.,</i>	32 Larch St.
Jessie Goodwin Tiffany,	<i>Barrington,</i>	Barrington Centre.
Caroline Luella Tuthill.	<i>Pulmer, Ms.,</i>	Central Falls.
Clara Whitehead,	<i>Providence,</i>	39 Kenyon St.

FRESHMAN CLASS

Adelaide Harris Arnold,	<i>Pawtucket,</i>	44 Clay St.
Anne Walcott Carpenter,	<i>Providence,</i>	95 Benevolent St.
Kathrena Laurretta Cawley,	<i>East Providence.</i>	East Providence.
Maude Collins,	<i>East Greenwich,</i>	East Greenwich.
Mary Ida Crawford,	<i>Attleborough, Ms.,</i>	Attleborough.
Virginia Morgan Crumb,	<i>Riverside,</i>	Riverside.

NAME	RESIDENCE	ROOM
Norma Garvin,	<i>Lonsdale,</i>	Lonsdale.
Phebe Rushmore Gifford,	<i>Providence,</i>	32 Larch St.
Elizabeth Christina Grant,	<i>Providence,</i>	155 Lippitt St.
Emma Hindley,	<i>Valley Falls,</i>	Valley Falls.
Grace Elizabeth Inman,	<i>Providence,</i>	1632 Ch'lkstone Av.
Ethel Clare Jameson,	<i>East Providence,</i>	East Providence.
Emily Gardner Munro,	<i>Bristol,</i>	Bristol.
Katharine Marie Neuschuez,	<i>No. Attleboro', Ms.,</i>	No. Attleborough.
Mary Abbie Frink Randall,	<i>Providence,</i>	83 Beaufort St.
Harriet Elsie Spooner,	<i>Barre, Vt.,</i>	66 Fountain St.
Caroline Edna Smith,	<i>Attleborough, Ms.,</i>	Attleborough.
Edith Augusta Thompson,	<i>Providence,</i>	336 Willard Ave.
Anna Tisdale,	<i>Providence,</i>	14 Jackson St.
Ethel Ella Tower,	<i>Providence,</i>	397 Pine St.
Ida Evelyn Waite,	<i>Providence,</i>	14 Parkis Ave.
Margaret Lillian Wesley,	<i>Providence,</i>	161 Smith St.
Amy Earle White,	<i>Attleborough, Ms.,</i>	Attleborough.

SPECIAL STUDENTS

Elizabeth Edge Armington,	<i>Riverside,</i>	Riverside.
Martha Louise Andrews,	<i>Providence,</i>	91 Almy St.
Ethel Marian Bonner,	<i>Providence,</i>	102 Williams St.
Kate Louise Bronson,	<i>Attleborough, Ms.,</i>	Attleborough.
Edna Adelaide Brown,	<i>Providence,</i>	523 Manton Ave.
Ethel Farnum Brown,	<i>Providence,</i>	523 Manton Ave.
Carrie Bunce,	<i>Providence,</i>	44 Bridgham St.
Ellen Metcalf Bush,	<i>Providence,</i>	542 Broad St.
Myra Hibbard Butler,	<i>Woodsville, N. H.,</i>	62 Bowen St.
Irene Louise Calef,	<i>Manton,</i>	Manton.
Addie May Drake,	<i>Bristol, N. H.,</i>	46 Arch St.
Edna Rhodes Gardiner,	<i>Providence,</i>	150 Cypress St.
Alice Louise Gardner,	<i>Warren,</i>	Warren.
Ethel Garvin,	<i>Lonsdale,</i>	Lonsdale.
Jessie May Gaskill,	<i>Woonsocket,</i>	Woonsocket.
Mary Alma Grant,	<i>Providence,</i>	155 Lippitt St.

SUMMARY

Graduates	108	Freshmen	140
Seniors	91	Select Course	45
Juniors	112	Women's College	100
Sophomores	144		
Total			740

SUMMARY BY STATES

Rhode Island	378	Minnesota	3
Massachusetts	153	Maryland	3
New York	42	Michigan	2
New Hampshire	30	Georgia	2
Connecticut	29	Virginia	2
Vermont	20	Texas	1
New Jersey	19	Kansas	1
Maine	17	England	1
Illinois	9	Nova Scotia	1
Wisconsin	6	Sweden	1
Pennsylvania	5	Switzerland	1
California	5	Burma	1
Ohio	3	Assam	1
Tennessee	3	Japan	1
Total			740

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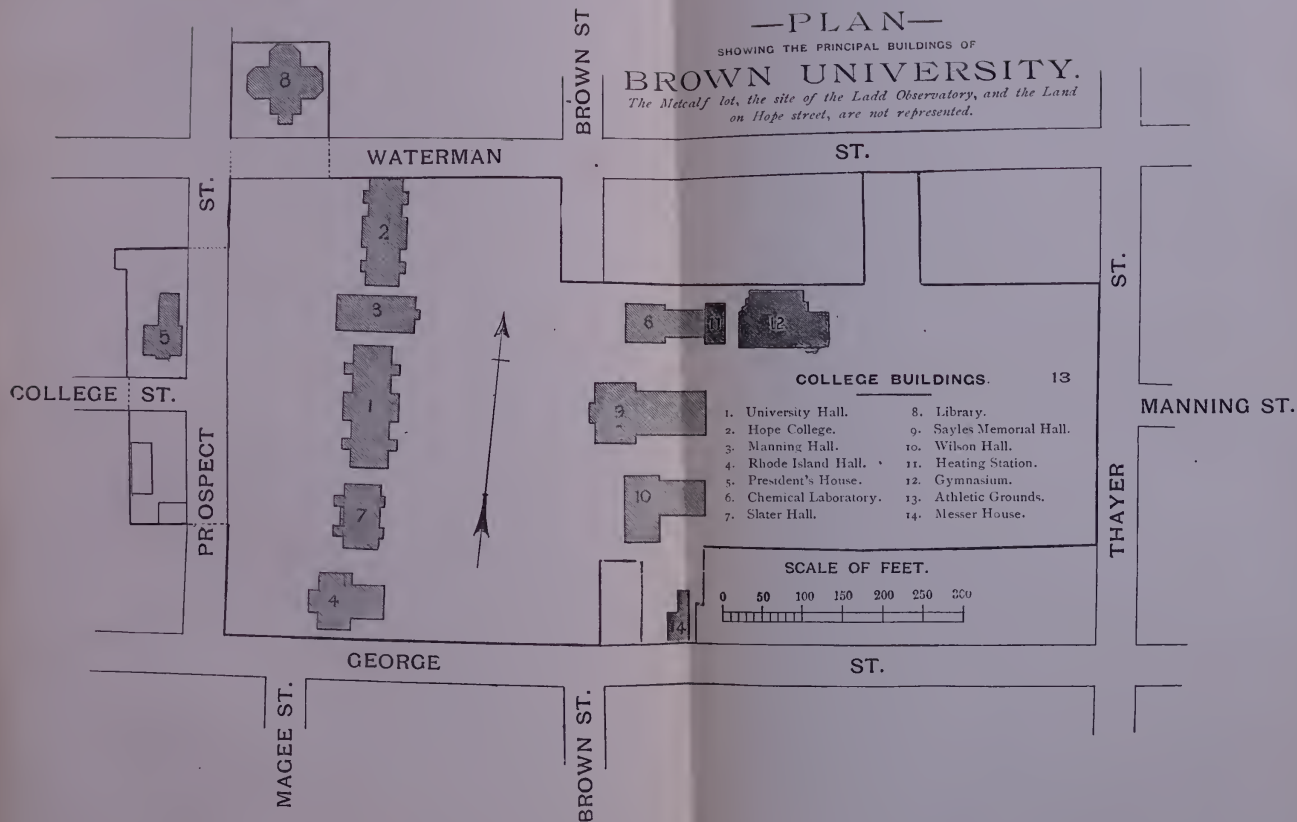
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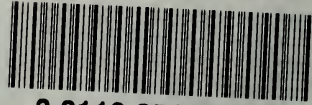
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—PLAN—
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BROWN UNIVERSITY.
*The Metcalf lot, the site of the Ladd Observatory, and the Land
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